GOLD DEPOSITS OF ONTARIO

PART 1

Districts of Algoma, Cochrane, Kenora
Rainy River, and Thunder Bay

By
S.A. Ferguson, H.A. Groen, and R. Haynes

Reprint
of
Ontario Division of Mines

MINERAL RESOURCES CIRCULAR No. 13
1971

Ontario
Ministry of
Natural
Resources

Hon. Alan W. Pope
Minister

W.T. Foster
Deputy Minister

© ODM 1971
Printed 1971
Reprinted 1973 with Figure 6 updated to April 1973
Reprinted 1982 with Figure 6 updated to March 1982.

ISSN 0706-4551

Publications of the Ontario Ministry of Natural Resources are available from the following sources. Orders for publications should be accompanied by cheque or money order payable to the *Treasurer of Ontario.*

Reports, maps and price lists (personal shopping or mail order):

Public Service Centre, Ministry of Natural Resources
Room 1640, Whitney Block, Queen's Park
Toronto, Ontario M7A 1W3

Reports only (personal shopping):

Ontario Government Bookstore
Main Floor, 880 Bay Street
Toronto, Ontario

Reports and maps (mail order or telephone orders):

Publications Services Section, Ministry of Government Services
5th Floor, 880 Bay Street
Toronto, Ontario M7A 1N8
Telephone (local calls), 965-6015
Toll-free long distance, 1-800-268-7540
Toll-free from Area Code 807, 0-ZENITH-67200

Every possible effort is made to ensure the accuracy of the information contained in this report, but the Ministry of Natural Resources does not assume any liability for errors that may occur. Source references are included in the report and users may wish to verify critical information.

Part of this publication may be quoted if credit is given. It is recommended that reference to this report be made in the following form:

Ferguson, S. A., Groen, H. A., and Haynes, R.
1971: Gold Deposits of Ontario: Part I, Districts of Algoma, Cochrane, Kenora, Rainy River, and Thunder Bay; Ontario Division of Mines, MRC13, 315 p. (reprinted 1982).

1000-82-STARR

CONTENTS

Page
Introduction 1
Acknowledgments 1
Ontario Production and Statistics 3
Distribution of Gold Deposits 3
Ore Shoots 10
Main Geological Types 10
Tabular Zones, Veins, and Bodies 10
General Features 10
Host Rocks 12
Basalt 12
Rhyolite 12
Tuff 13
Conglomerate 13
Greywacke 13
Iron Formation 13
Syenite, Porphyry 13
Granite 14
Carbonatized Zones 14
Sulphide Deposits 14
Pyritized Zones 14
Arsenopyrite Zones 14
Placer Deposits 15
Indurated Precambrian Placers 15
Pre-Pleistocene Placers 15
Pleistocene Placers 15
Recent Placers 15
The Future of Gold Mining 15
Dimensions and Grade of Deposits 15
Mining and Milling Methods 16
Planning 16
New Exploration Methods 16
Description of Deposits 18
Algoma District 18
Aberdeen Township 18
Kirk Gold Prospect 18
Galbraith Township 18
Havilah Mine (Past Producer) 18
Hawkins Township 19
Shenango Prospect 19
Lizar Township 20
Hiawatha Mine (Past Producer) 20
Township 27, Range 25 20
Alden-Goudreau Mine (Past Producer) 20
Township 28, Range 24 21
Murray-Algoma Prospect 21
Reed-Booth Prospect 22
Township 28, Range 25 22
Peter Edwards Prospect 22
Holdsworth Prospect 23
Township 28, Range 26 24
Goudreau Mine (Past Producer) 24
Kozak Prospect 24
Township 29, Range 22 25
Centennial Mine (Past Producer) 25
Manxman Prospect 26
Township 29, Range 23 27
Cooper Mine (Past Producer) 27
Deep Lake Mine (Past Producer) 27
Golden Reed Prospect 28
Grace Mine (Past Producer) 29
Hillside Prospect 29
MacKey Point Prospect 30
Minto Mine (Past Producer) 30
Parkhill Mine (Past Producer) 32
S.B. Smith Mine (Past Producer) 32
Stanley Prospect 33
Surluga Mine (Past Producer) 34
Township 30, Range 19 35
Coutu Prospect 35
Township 47 36
Bankfield Prospect 36
Camex Prospect 36
Township 48 37
Cline Mine (Past Producer) 37
Edwards Mine (Past Producer) 38
Township 49 38
Algoma Summit Mine (Past Producer) 38
Kremzar Prospect 39
Township 137 40
Payton Prospect 40
Occurrences 42
Cochrane District 45
Beatty Township 45
Aljo Mine (Past Producer) 45
Argyll Mine (Past Producer) 47
Blue Quartz Prospect 48
Stewart-Abate Prospect 49
Bristol Township 49
Orpit Prospect 49
Carscallen Township 50
Jowsey Prospect 50
Clergue Township 51
Montclerg Prospect 51
Cody Township 51
Goldhawk Prospect 51

Page
J. Huddlestone Mine (Past Producer) 53
Porcupine Peninsular Mine (Past Producer) 53
Deloro Township 55
Ankerite Mine (Past Producer) 55
Ankerite Mine (March) (Past Producer) 56
Aunor Mine (Producer) 57
Cincinnati Mine (Past Producer) 58
Clucas Booker Occurrence 59
Concordia Prospect 60
Dayton Prospect 61
Delnite Mine (Past Producer) 61
Delwin Prospect 62
Delwood Prospect 63
Faymar Mine (Past Producer) 63
Jasper Prospect 64
Jodelo Prospect 65
McBine Porcupine Prospect 65
McLaren-Porcupine Mine (Past Producer) 66
Preston Mine (Porcupine Pet) 66
Preston Mine (Porphyry Hill) 67
Powell Prospect 67
Garrison Township 68
Buffonta Prospect 68
Garrcon Prospect 69
Grimston Prospect 69
Guibord Township 70
Gold Pyramid Prospect 70
Talisman Prospect 71
Harker Township 71
Coin Lake Prospect 71
Harker Prospect 72
harlight Prospect 72
Hislop Township 73
Golden Arrow Prospect 73
Hislop Prospect 74
Kelore Prospect 75
Ross Mine (Producer) 76
Vimy Prospect 77
Holloway Township 77
Teddy Bear Prospect 77
Macklem Township 78
Aquarius Prospect 78
Ronnoco Prospect 79
Mountjoy Township 80
Polaris Prospect 80
Munro Township 80
American Eagle Prospect 80
Croesus Mine (Past Producer) 81
White-Guyatt Prospect 81
Ogden Township 82
De Santis Mine (Past Producer) 82
Gold Quill Prospect 83
McEnaney Prospect 84
Naybob Mine (Past Producer) 85
Rickard Township 86
Twindyke Prospect 86
Shaw Township 87
Carshaw Prospect 87
Novell Prospect 88
Tommy Burns Prospect 88
Tisdale Township 90
Augdome Prospect 90
Beaumont Prospect 91
Central Porcupine Prospect 91
Coniaurum Mine (Past Producer) 92
Crown Mine (Past Producer) 93
Crown Chartered Prospect 94
Davidson Mine (Past Producer) 94
Dobell Prospect 95
Dome Mine (Producer) 96
Foley-O'Brien Prospect 97
Fuller Mine (Past Producer) 97
Gillies Lake Mine (Past Producer) 98
Hollinger Mine (Past Producer) 99
McIntyre Mine (Producer) 101
Moneta Mine (Past Producer) 102
Paymaster Mine (Past Producer) 103
Preston Mine (Past Producer) 104
Preston Mine (Midcamp) (Past Producer) 105
Preston Mine (New York) (Past Producer) 106
Tisdale Ankerite Mine (Past Producer) 107
Triumph Prospect 107
Vipond Mine (Past Producer) 108
Tully Township 109
McIntyre Prospect 109
Texmont Prospect 110
Turnbull Township 110
De Santis Prospect 110
Whitney Township 111
Banner Prospect 111
Bonetal Mine (Past Producer) 112
Bonwhit Mine (Past Producer) 113
Broulan Mine (Past Producer) 114
Hallnor Mine (Producer) 115
Hoyle Mine (Past Producer) 116

Page

    - Hugh-Pam Mine (Past Producer) ... 117
    - North Whitney Prospect ... 118
    - Pamour Mine (Producer) ... 119
    - Porcupine Lake Mine (Past Producer) ... 120
    - Reef Mine (Past Producer) ... 121
  - Occurrences ... 123
- Kenora District ... 139
  - Echo Township ... 139
    - Conecho Prospect ... 139
    - Lun-Echo Prospect ... 139
    - Newlund Prospect ... 140
    - Villbona Prospect ... 141
    - Windward Prospect ... 141
  - Ewart Township ... 142
    - Electrum Prospect (Arsenic Zone) ... 142
    - Electrum Prospect (A,B,C and D Zones) ... 142
    - Electrum Prospect (P and W Zones) ... 143
    - Kenopo Prospect (Conglomerate Showing) ... 143
    - Kenopo Prospect (Electrum Pits) ... 144
    - Purdex Prospect ... 144
  - Forgie Township ... 145
    - Golden Horn Mine (Past Producer) ... 145
  - Glass Township ... 146
    - Cornucopia Mine (Past Producer) ... 146
    - Crown Point Prospect ... 147
    - Mikado Mine (Past Producer) ... 147
    - Olympia Mine (Past Producer) ... 148
  - Haycock Township ... 149
    - Black Sturgeon Prospect ... 149
    - Champion Prospect ... 150
  - Jaffray Township ... 151
    - Treasure Prospect ... 151
  - Kirkup Township ... 151
    - Black Jack Prospect ... 151
    - Gold Hill Prospect ... 152
  - MacFie Township ... 153
    - Alto-Gardnar Prospect ... 153
  - Manross Township ... 153
    - Stella Prospect ... 153
    - Wendigo Mine (Past Producer) ... 154
  - Phillips Township ... 155
    - Combined Prospect ... 155
  - Pickerel Township ... 156
    - Eaglelund Prospect ... 156
  - Van Horne Township ... 156
    - Bonanza Prospect ... 156
    - Redeemer Prospect ... 157
  - Vermilion Township ... 157
    - Vermilion Lake Mine (Past Producer) ... 157
  - Willingdon Township ... 158
    - Regina Mine (Past Producer) ... 158
  - 49°00' - 93°15' ... 159
    - Straw Lake Beach Mine (Past Producer) ... 159
  - 49°15' - 92°30' ... 160
    - Big Master Mine (Past Producer) ... 160
    - Detola Prospect ... 162
    - Elora Mine (Past Producer) ... 162
    - Giant Prospect ... 163
    - Laurentian Mine (Past Producer) ... 164
    - Little Master Prospect ... 164
    - Paymaster Prospect ... 165
    - Volcanic Reef Prospect ... 166
  - 49°15' 92°45' ... 166
    - Glass Reef Prospect ... 166
    - Gold Rock Prospect ... 167
    - Royal Sovereign Prospect ... 167
    - Twentieth Century Mine (Past Producer) ... 168
  - 49°15' - 93°00' ... 169
    - Errington Prospect ... 169
  - 49°15'- 93°30' ... 169
    - Monte Cristo Prospect ... 169
    - Sullivan Prospect ... 170
    - Violet Prospect ... 170
    - Virginia Prospect ... 171
    - Wampum Lake Prospect ... 172
  - 49°15' - 93°45' ... 172
    - Caswell-Williams Prospect ... 172
    - Dogpaw Lake Prospect ... 173
    - Gold Panner Prospect ... 174
  - 49°30' - 92°15' ... 174
    - Sakoose Mine (Past Producer) ... 174
    - Tabor Prospect ... 175
  - 49°30' - 92°30' ... 176
    - Van Houten Prospect ... 176
  - 49°30' - 92°45' ... 177
    - Rognon Mine (Past Producer) ... 177
    - Wachman Prospect ... 178
  - 49°30' - 93°00' ... 178
    - Baden Powell Mine (Past Producer) ... 178
  - 49°30' - 93°15' ... 179
    - Eldorado Prospect ... 179
    - Grace Prospect ... 180
  - 49°30' - 94°15' ... 181
    - Ophir Mine (Past Producer) ... 181
    - Sultana Mine (Past Producer) ... 181

Page

  - 49°30' - 94°30' ... 182
    - Kenricia Mine (Past Producer) ... 182
  - 49°30' - 95°00' ... 183
    - Cameron Island Mine (Past Producer) ... 183
  - 49°45' - 91°45' ... 184
    - Burnthut Island Prospect ... 184
- Kenora District (Patricia Portion) ... 186
  - Baird Township ... 186
    - Aiken Red Lake Prospect ... 186
    - Faulkenham Lake Prospect ... 187
    - Madsen Mine (Producer) ... 187
    - Parvus Prospect ... 188
    - Redaurum Red Lake Prospect ... 189
    - Russet Red Lake Prospect ... 190
    - Starratt Olsen Mine (Past Producer) ... 190
  - Ball Township ... 191
    - Cole Prospect ... 191
    - Middle Bay Prospect ... 192
  - Balmer Township ... 193
    - Abino Prospect ... 193
    - Campbell Red Lake Mine (Producer) ... 194
    - Dickenson Mine (Producer) ... 194
    - Redcon Prospect ... 196
    - Robin Red Lake Prospect ... 196
    - H.G. Young Mine (Past Producer) ... 197
  - Bateman Township ... 198
    - Beatrice Prospect ... 198
    - Duchesne Red Lake Prospect ... 198
    - Forsyth Prospect ... 199
    - McFinley Prospect ... 199
  - Connell Township ... 200
    - Central Patricia Mine (Past Producer) ... 200
    - Central Patricia Mine - No. 2 Operation (Past Producer) ... 201
    - Pickle Crow Mine (Past Producer) ... 202
    - Pickwick Prospect ... 203
  - Dent Township ... 204
    - Hudson-Patricia Mine (Past Producer) ... 204
    - Jackson-Manion Mine (Past Producer) ... 205
  - Dome Township ... 205
    - Annco Mine (Producer) ... 205
    - Cochenour Willans Mine (Producer) ... 206
    - Consolidated Marcus Prospect ... 207
    - Craibbe-Fletcher Prospect ... 208
    - Gold Eagle Mine (Past Producer) ... 209
    - Kaymac Prospect ... 210
    - McCuaig Red Lake Prospect ... 211
    - McKenzie Mine (Past Producer) ... 211
    - McMarmac Mine (Past Producer) ... 212
    - Red Lake Gold Shore Mine (Past Producer) ... 213
    - Sanshaw Prospect ... 214
    - Wilmar Mine (Producer) ... 215
  - Earngey Township ... 216
    - Uchi Mine (Grasett) (Past Producer) ... 216
    - Uchi Mine (Hana!da) (Past Producer) ... 217
    - Uchi Mine (Jalda) (Past Producer) ... 218
    - Uchi Mine (Uchi) (Past Producer) ... 218
    - Bobjo Prospect ... 220
  - Fairlie Township ... 220
    - Alcourt Prospect ... 220
    - Humlin Prospect ... 221
  - Heyson Township ... 222
    - Buffalo Red Lake Prospect ... 222
    - Derlak Red Lake Prospect ... 223
    - Hasaga Mine (Past Producer) ... 223
    - Howey Mine (Past Producer) ... 224
  - Indian Reserve No. 64 ... 225
    - Zulapa Prospect ... 225
  - McCullagh Township ... 226
    - Crowshore Prospect ... 226
  - McDonough and Bateman Townships ... 226
    - Inore Prospect ... 226
  - McNaughton Township ... 227
    - Sol D'Or Mine (Past Producer) ... 227
  - Todd Township ... 228
    - Gold Frontier Prospect ... 228
    - Lake Rowan Prospect ... 229
    - Red Crest Mine (Past Producer) ... 229
  - 51°15' - 92°15' ... 230
    - Jason Mine (Past Producer) ... 230
  - 51°30' - 88°00' ... 232
    - Golden Hope Prospect ... 232
  - 52°15' - 92°45' ... 232
    - Spirit Lake Prospect ... 232
  - 52°45' - 93°30' ... 233
    - Berens River Mine (Past Producer) ... 233
  - 53°45' - 92°45' ... 234
    - Lingman Lake Prospect ... 234
  - 54°30' - 91°15' ... 235
    - Sachigo River Mine (Past Producer) ... 235
  - Occurrences, Kenora ... 237
  - Occurrences, Kenora (Patricia Portion) ... 244
- Rainy River District ... 248
  - Baker Township ... 248
    - Harold Lake Mine (Past Producer) ... 248

Page

- Bennett Township 248
  - Independence Mine (Past Producer) 248
- Freeborn Township 249
  - Elizabeth Prospect 249
- Hutchinson Township 250
  - J.J. Walsh Prospect 250
- McCaul Township 250
  - Jack Lake Prospect 250
  - Sapawe Mine (Past Producer) 251
- Ramsay Wright Township 252
  - Sunbeam Mine (Past Producer) 252
- Trottier Township 253
  - White Lilly Prospect 253
- 48°30' - 92°30' 253
  - Foley Mine (Past Producer) 253
  - Golden Crescent Prospect 254
  - Golden Star Mine (Past Producer) 255
  - Isabella Prospect 256
  - Lucky Coon Prospect 257
- 48°45' - 91°15' 257
  - Hammond Reef Mine (Past Producer) 257
  - Sawbill Lake Mine (Past Producer) 258
- 48°45' - 92°30' 259
  - Olive Mine (Past Producer) 259
  - Saundary Prospect 259
- Occurrences 261

Thunder Bay District 262

- Ashmore Township 262
  - Hard Rock Mine (Past Producer) 262
  - MacLeod-Cockshutt Mine (Past Producer) 263
- Dorothea Township 264
  - Amorada Prospect 264
- Errington Township 265
  - Bankfield Mine (Past Producer) 265
  - Little Long Lac Mine (Past Producer) 266
  - Magnet Consolidated Mine (Past Producer) 267
  - Mosher Long Lac Mine (Past Producer) 268
  - Talmora Longlac Mine (Past Producer) 269
  - Tombill Prospect 270
- Eva Township 271
  - Leitch Mine (Past Producer) 271
  - Sand River Mine (Past Producer) 271
- Fulford Township 273
  - Maylac Mine (Past Producer) 273
- Gorham Township 274
  - Thunderhead Prospect 274
- Haines Township 274
  - Ray Smith Prospect 274
- Irwin Township 275
  - Brengold Mine (Past Producer) 275
  - Brookbank Prospect 276
  - Knox Lake Prospect 276
  - Macjoe Sturgeon Prospect 277
  - Sturgeon River Mine (Past Producer) 277
- Jutten Township 278
  - Northern Canada Prospect 278
- Leduc Township 278
  - Oremond Prospect 278
- Lindsley Township 279
  - Tombill Mine (Past Producer) 279
- McComber Township 280
  - Longbeard Prospect 280
- Moss Township 280
  - Kerry Mine (Past Producer) 280
  - Lobanor Prospect 281
- Pifher Township 282
  - Chellew Prospect 282
  - Greenoaks Prospect 283
  - Maloney Sturgeon Prospect 283
- Rickaby Township 284
  - Orphan Mine (Past Producer) 284
- Summers Township 284
  - Beardmore Mine (Past Producer) 284
  - Spooner Prospect 285
- Township 73 286
  - Lake Superior Prospect 286
- Township 84 287
  - Harkness-Hays Mine (Past Producer) 287
  - North Shores Mine (Past Producer) 287
- 48°00' - 85°15' 288
  - Amichi Prospect 288
  - Bishu Prospect 289
- 48°30' - 86°45' 289
  - South Slate Island Prospect 289
- 49°00' - 87°15' 290
  - Beaver Prospect 290
  - Church Prospect 290
  - Coco-Estelle Prospect 291
- 49°30' - 86°30' 291
  - Theresa Mine (Past Producer) 291
- 49°45' - 87°30' 292
  - Kenty Prospect 292
- 50°00' - 90°30' 293
  - Dawson-White Prospect 293
  - Richelieu Prospect 294
  - St. Anthony Mine (Past Producer) 294
- 50°15' - 87°00' 295
  - Camdeck Prospect 295
  - Lake-Osu Prospect 296
- Occurrences 298

FIGURES

1. Ontario districts and counties 2
2. Ontario gold mines, price of gold in dollars 4
3. Ontario gold mines, average grade of ore mined 5
4. Ontario gold mines, production and dividends, 1912-1967 6
5. Ontario gold mining areas, their location and relative importance 8
6. Northern Ontario, index to geological compilation series 9
7. Pickle Crow Gold Mines Limited, gold content of No. 1 (Howell) vein 11
8. Porcupine mining area 46
9. Red Lake mining area 185

TABLE

1. Ontario Gold Production 7

PREFACE

This Mineral Resources Circular is to be issued in two parts as follows:

Part I : Districts of Algoma, Cochrane, Kenora and Kenora (Patricia Portion), Rainy River, and Thunder Bay.

Part II: Districts of Muskoka, Nipissing, Parry Sound, Sudbury, Timiskaming and counties of southern Ontario.

Mineral Resources Circular No. 3, Mineral Resources and Mining Properties in the Kirkland Lake-Larder Lake Area by W.S. Savage published by the Ontario Department of Mines in 1964 covers the most important gold mining area not described in Part I of this circular. The deposits have been arbitrarily grouped into past producers, producers, prospects and occurrences. A past producer or producer is a property that has produced at least 100 ounces of gold. A prospect is a property where there is at least 100 feet of underground workings or 2,000 feet of drilling for which records of the results obtained are available. An occurrence is a property where the amount of work known to have been done is less than the minimum requirements for a prospect and gold is known to be present either by observation or by assay.

GOLD DEPOSITS OF ONTARIO

By

S.A. Ferguson[1], H.A. Groen[2], and R. Haynes[3]

INTRODUCTION

The Ontario deposits, where gold is the principal metal, are briefly described in this circular. The deposits are arranged alphabetically by district or county. Within these geographical areas they are arranged alphabetically by township or by latitude and longitude where no township exists. The latitude and longitude unit used is 15 minutes by 15 minutes and is defined by the latitude and longitude of the southeast corner. The deposits are classified as mines, prospects or occurrences depending on their state of development. A brief description is given of the geology with emphasis on economic features. The type of development work, the years that it was in progress and by whom it was performed is noted. Map, text, and file references list documents from which the information was obtained.

The sources of information used for this circular have come mainly from Ontario Department of Mines publications and statistical files, and from mineral deposit files of the Mineral Resources Branch, Department of Energy, Mines and Resources, Ottawa. Additional information has been obtained from the Canadian Mines Handbook, and the Survey of Mines published by The Financial Post, as well as a few other sources which are given where they occur. No search has been made of the files of the Resident Geologists of the Ontario Department of Mines, The Northern Miner, files of the Ontario Securities Commission, etc.

Acknowledgments

Copies of the files on gold were supplied to us by the Resources Branch, Department of Energy, Mines and Resources, Ottawa. K.A. Ewing of this Branch was most co-operative and helpful. H.B. Upadhyay worked on this project at an early stage. E.G. Bright, Resident Geologist, Timmins supplied data on some deposits in the vicinity of Timmins. Mrs. A.S. Dadson typed cards of known deposits accompanied by a bibliography. She set up a filing system and, as property descriptions were completed, filed them and compiled index cards relating the file to the present and past property owners. She established an index relating townships to the National Topographic System

---

[1] Chief, Data Retrieval and Education Section, Geological Branch.

[2] Mineral Records Geologist, Data Retrieval and Education Section, Geological Branch.

[3] Geological Assistant, Data Retrieval and Education Section, Geological Branch.

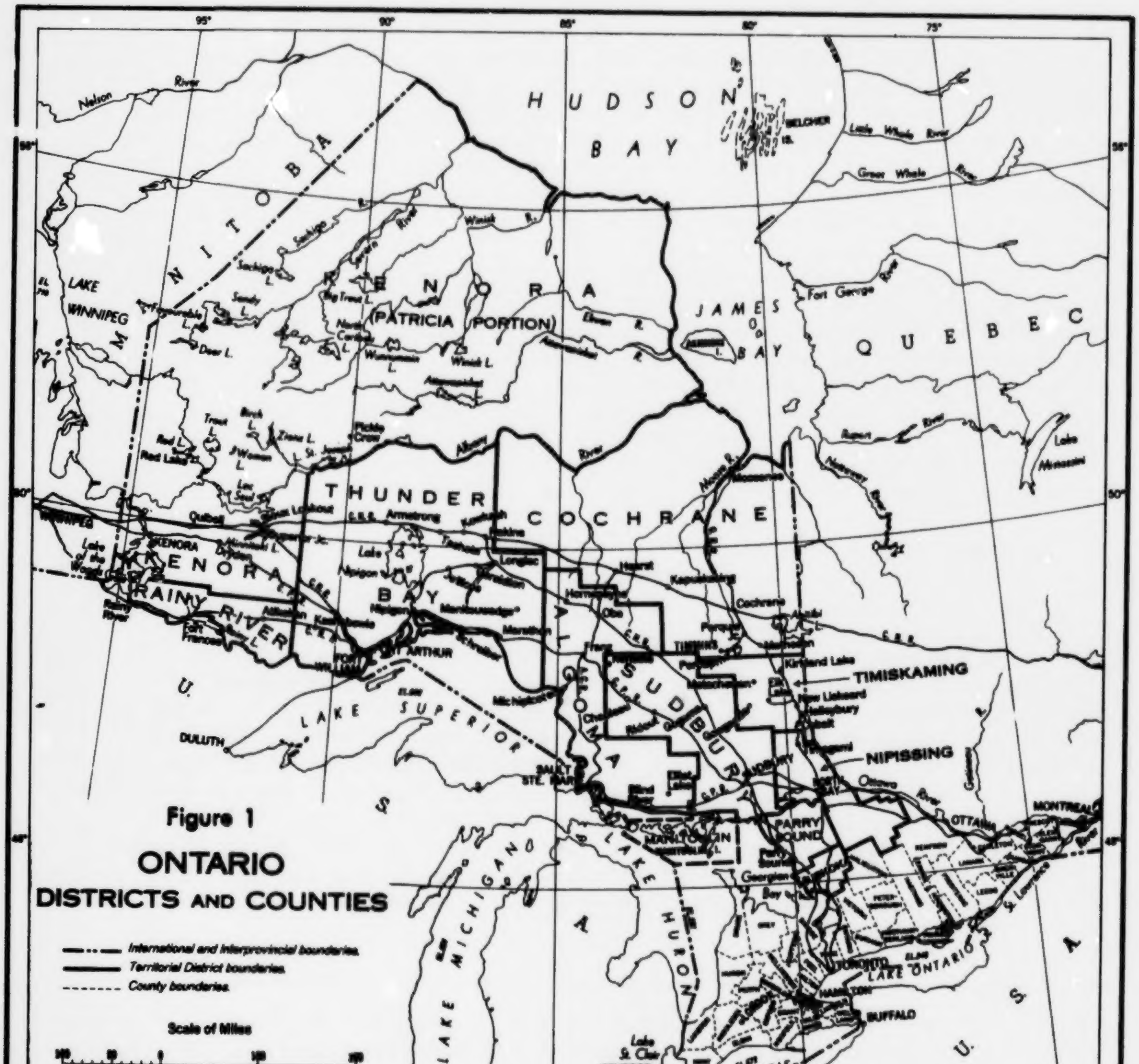


Figure 1

ONTARIO
DISTRICTS AND COUNTIES

HUDSON BAY
JAMES BAY
MANITOBA
QUEBEC
KENORA (PATRICIA PORTION)
KENORA
RAINY RIVER
THUNDER BAY
COCHRANE
ALGOMA
SUDBURY
TIMISKAMING
NIPISSING
MANITOULIN
PARRY SOUND
LAKE WINNIPEG
LAKE SUPERIOR
LAKE MICHIGAN
LAKE HURON
LAKE ONTARIO
LAKE ERIE
Georgian Bay
Lake St. Clair
U.S.A.
Nelson River
BELCHER IS.
Little Whale River
Great Whale River
Fort George River
Rupert River
Lake Mistassini
Albany River
Winisk R.
Moose R.
Moosonee
Sioux Lookout
Armstrong
Nipigon
Port Arthur
Fort William
Fort Frances
Kenora
Hearst
Kapuskasing
Cochrane
Timmins
Kirkland Lake
New Liskeard
Haileybury
Cobalt
North Bay
Sudbury
Sault Ste. Marie
Marathon
Michipicoten
Schreiber
Ottawa
Montreal
Toronto
Hamilton
Buffalo
Windsor
Duluth
Chicago
Winnipeg
C.P.R.
C.N.R.
International and Interprovincial boundaries.
Territorial District boundaries.
County boundaries.
Scale of Miles
100
50
0
100
200
Longitude west from Greenwich
95°
90°
85°
80°
75°
55°
50°
45°

and giving the latitude and longitude of the southeast corner of the square. In addition, she made an index relating preliminary maps, coloured maps, open file reports, geological reports, etc.

Ontario Production and Statistics

The total amount of gold produced in Ontario to the end of 1968 was 105,453,293 ounces valued at 3,473,616,488 dollars. Of this amount 97.9 percent was produced by gold mines and the balance as a by-product from base metal mines. Of the total value of Ontario metallic mineral production gold is 4.6 percent. While the gross value of Canadian mineral production has increased 7-1/2 times since 1946, gold production has declined.

Ontario Production:

	Gold ounces	Value dollars	Silver ounces	Value dollars	Total Value dollars
1946					
Gold Mines	1,761,845	64,548,697	851,005	714,082	65,262,779
Base Metal Mines	39,449	1,449,751			
Total	1,801,294	65,998,448			
1968					
Gold Mines	1,309,159	49,368,386	329,232	761,514	50,129,900
Base Metal Mines	70,620	2,663,088			
Total	1,379,779	52,031,474			

Statistics:

The price of gold in dollars is shown in Figure 2, and the average grade of ore mined is shown in Figure 3. Figure 4 shows the total value of gold production and the total dividends paid. The production of gold by years from Ontario gold mines is shown in Table 1.

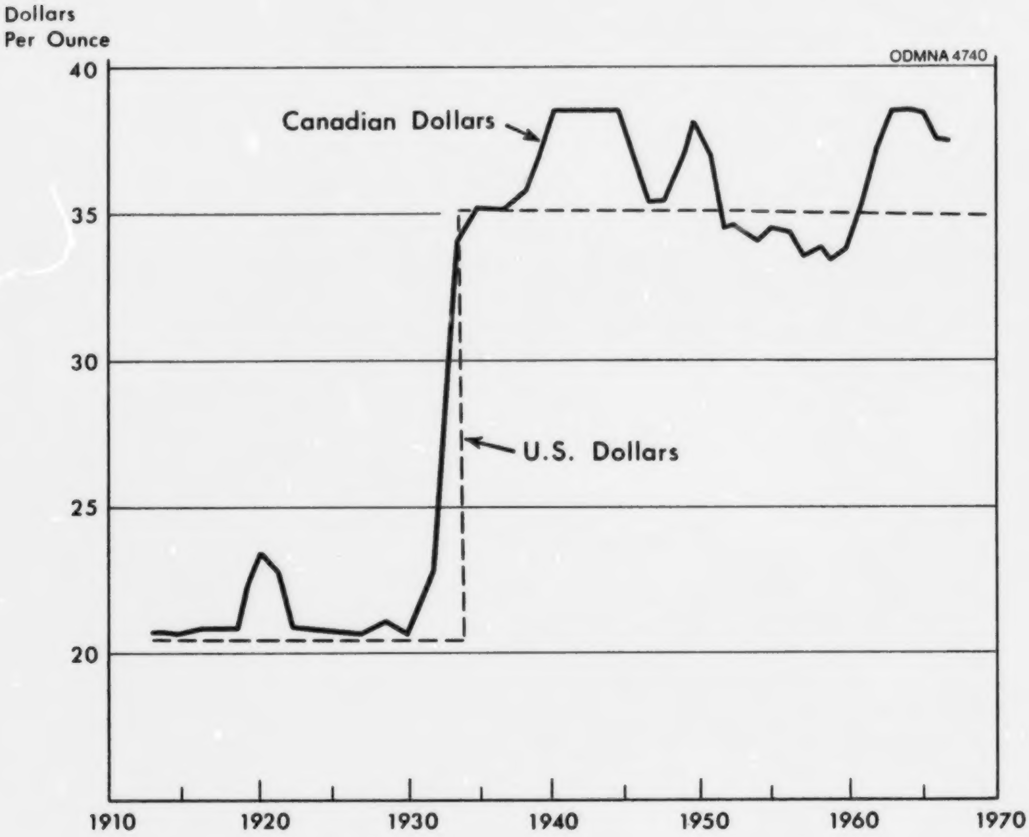
Distribution of Gold Deposits

The location of the main gold-producing areas and the relative amounts of production are shown in Figure 5. The location of gold properties is also shown on the Ontario Mineral Map 2148 at a scale of one inch to 25 miles. Coloured geological compilation series maps at a scale of one inch to four miles or the preliminary maps of this series at a scale of one inch to two miles, are available for much of the Precambrian of Ontario north of 46° (Figure 6); and part of eastern Ontario is covered by Maps 2053 and 2054

Figure 2

ONTARIO GOLD MINES

PRICE OF GOLD IN DOLLARS

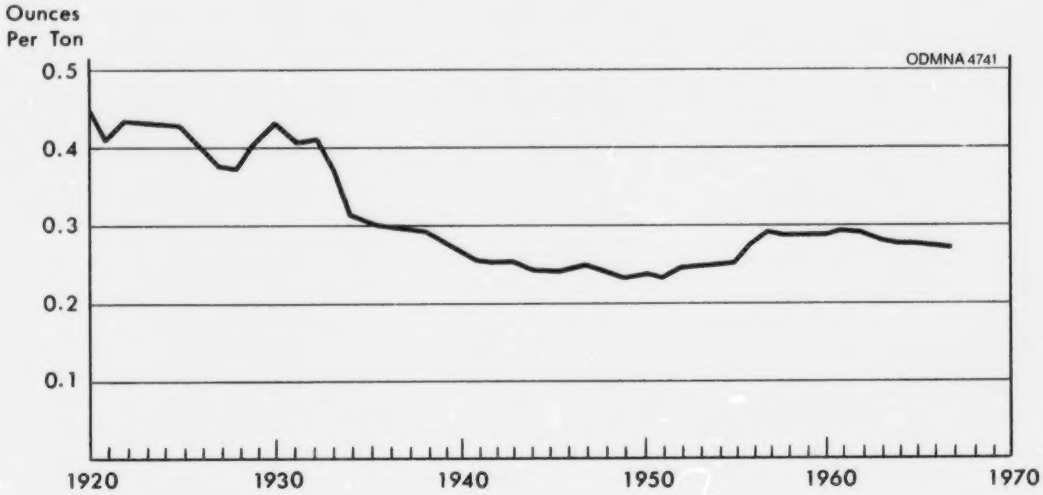


(Modified after Gold Mining in Ontario, Report of the Committee of Inquiry into the Economics of the Gold Mining Industry, 1955)

Figure 3

ONTARIO GOLD MINES

AVERAGE GRADE OF ORE MINED

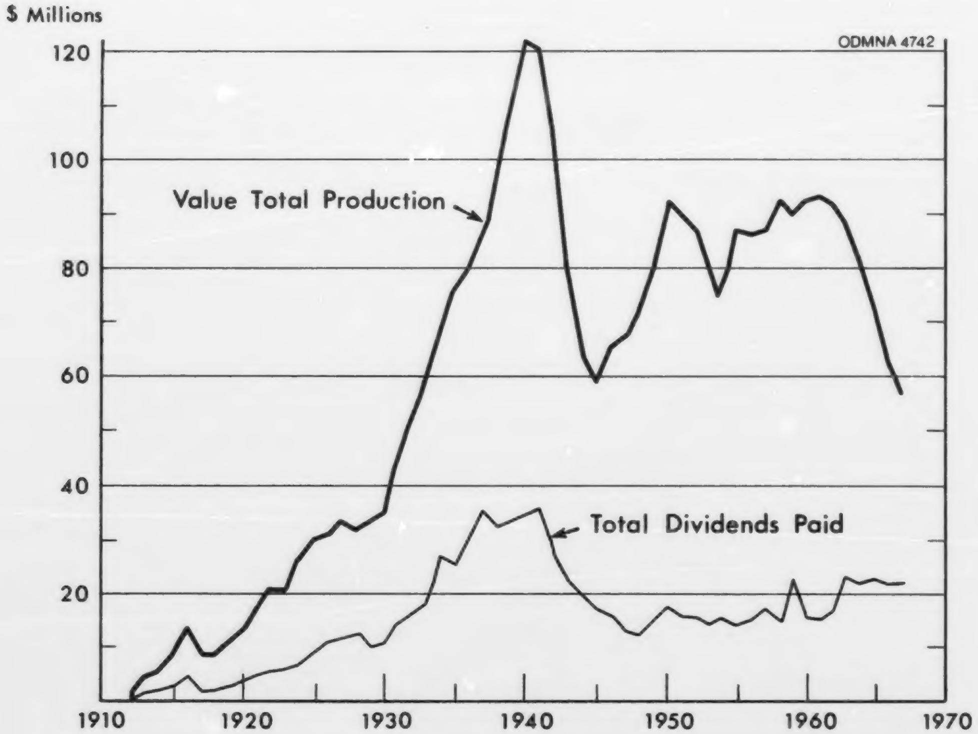


(Modified after Gold Mining in Ontario, Report of the Committee of Inquiry into the Economics of the Gold Mining Industry, 1955)

Figure 4

ONTARIO GOLD MINES

PRODUCTION AND DIVIDENDS, 1912–1967

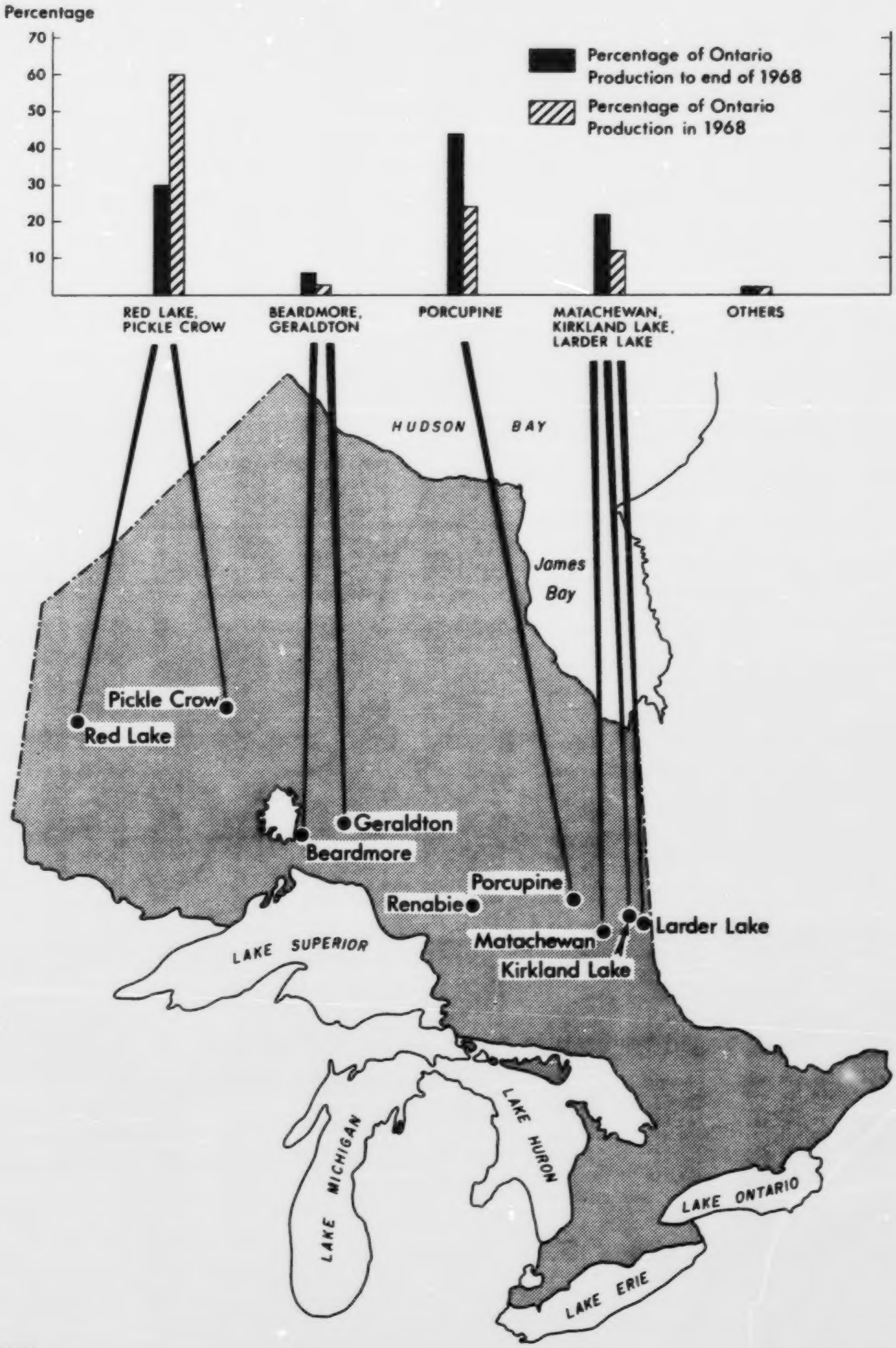


(Modified after Gold Mining in Ontario, Report of the Committee of Inquiry into the Economics of the Gold Mining Industry, 1955)

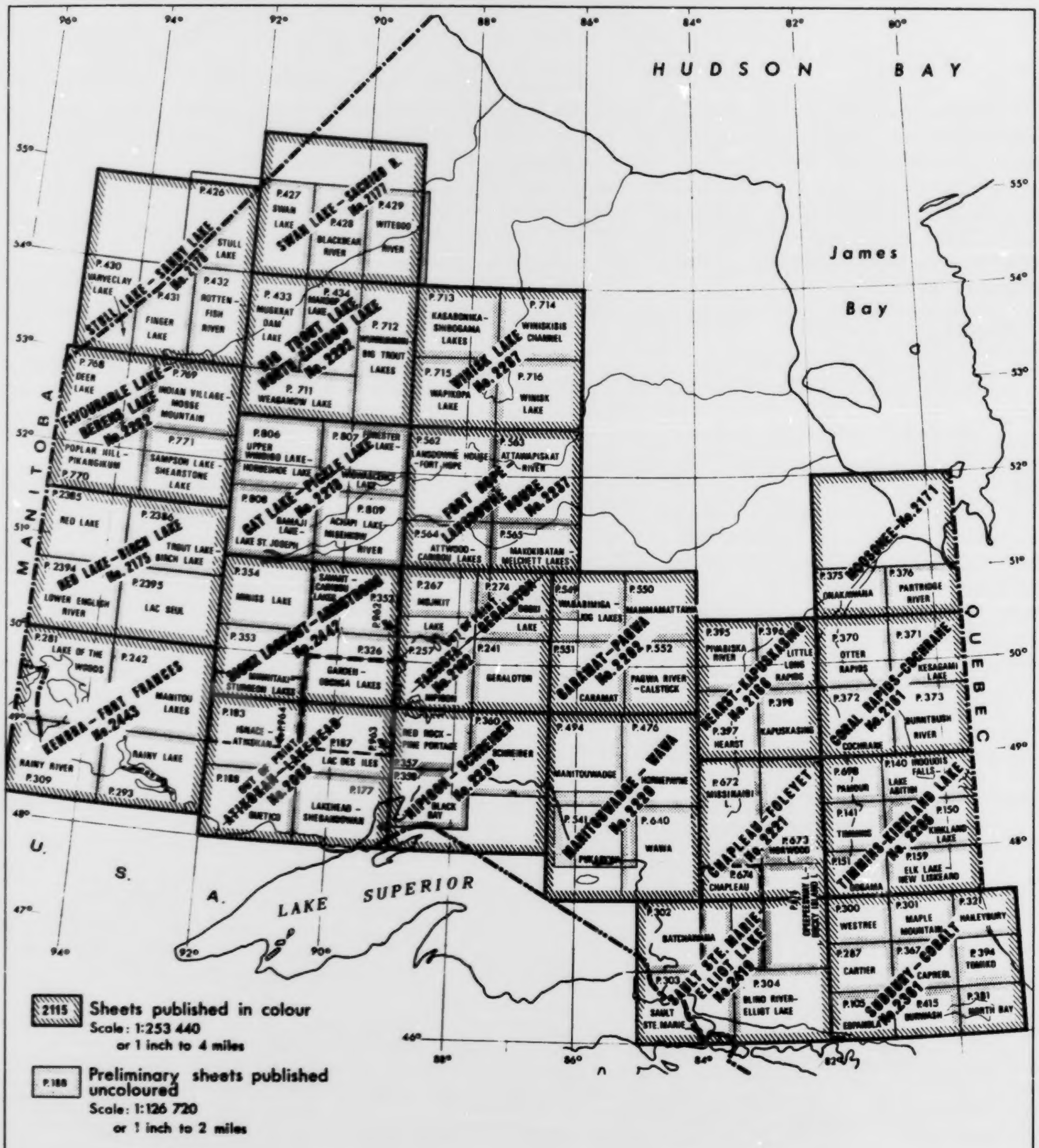
ONTARIO GOLD PRODUCTION

	PRODUCTION FROM GOLD MINES									PRODUCTION FROM GOLD AND BASE METAL MINES	
Year	Gold ounces	Value dollars	Silver ounces	Value dollars	Total Value dollars	Ore Milled tons	Gold per ton ounces	Value per ton dollars	Dividends dollars	Gold ounces	Value dollars
1885		1,372			1,372	28		49.00			1,372
1886		3,120			3,120	20		156.00			3,120
1891		2,000			2,000	500		4.00			2,000
1892		6,730			6,730	1,400		4.80			6,730
1893		30,833			30,833	3,102		9.94			39,382
1894	764	32,777			32,777	5,280	0.14	6.20			32,777
1895	389	57,322			57,322	5,531	0.07	10.36		389	57,322
1896		121,929			121,929	11,898		10.24			121,929
1897	9,065	193,243			193,243	28,666	0.32	6.74		9,065	193,243
1898	14,177	265,003			265,003	52,370	0.27	5.06		14,177	265,003
1899	27,620	424,708		840	425,548	59,415	0.46	7.16		27,620	424,708
1900	18,768	297,595	199	466	298,061	45,842	0.41	6.50		18,768	297,595
1901	14,298	244,350		88	244,438	53,361	0.27	4.86		14,298	244,350
1902	8,636	229,839			229,839	47,555	0.18	4.83		8,636	229,839
1903	5,935	185,807			185,807	34,297	0.17	5.41		5,935	185,807
1904	647	16,130	6	6	16,136	2,648	0.24	6.09		647	16,130
1905	5,429	100,612			100,612	17,713	0.31	5.68		5,429	100,612
1906	3,442	66,389			66,389	10,359	0.33	6.40		3,442	66,389
1907	3,821	66,560			66,560	13,107	0.29	5.07		3,821	66,560
1908	3,475	60,084	380	214	60,298	9,719	0.36	6.20		3,475	60,084
1909	2,051	32,745			32,745	6,500	0.31	5.03		2,051	32,745
1910	3,619	68,498	247	120	68,618	5,484	0.66	12.51		3,619	68,498
1911	2,185	42,637	89	48	42,685	3,852	0.57	10.43		2,185	43,264
1912	86,603	1,807,590	16,776	10,397	1,817,987	156,072	0.55	11.65	270,000	102,278	2,133,589
1913	220,625	4,554,122	43,360	25,355	4,579,477	365,246	0.60	12.54	1,170,000	220,625	4,544,122
1914	268,203	5,545,025	55,065	29,708	5,574,733	604,390	0.44	7.91	1,410,000	268,203	5,545,025
1915	407,128	8,409,750	77,126	38,510	8,448,260	929,922	0.44	9.04	2,344,875	407,128	8,409,750
1916	497,525	10,332,880	91,872	60,118	10,392,998	1,393,751	0.36	7.45	4,591,750	497,525	10,332,880
1917	420,796	8,696,726	75,819	61,032	8,757,758	1,230,321	0.34	7.11	1,699,543	420,855	8,697,947
1918	411,548	8,495,749	73,691	71,302	8,567,051	875,593	0.47	9.88	1,873,043	411,876	8,502,482
1919	504,995	10,431,714	92,673	102,214	10,533,928	1,134,271	0.45	9.28	2,186,028	505,962	10,451,708
1920	564,442	13,042,634	99,340	98,192	13,140,826	1,253,233	0.45	10.44	3,256,929	565,703	13,067,854
1921	708,033	15,994,673	124,061	78,274	16,072,947	1,717,339	0.41	9.36	4,342,990	712,570	16,085,413
1922	993,756	20,746,813	163,086	110,100	20,856,913	2,268,736	0.44	9.19	5,430,514	995,850	20,788,693
1923	970,647	20,345,567	159,334	101,010	20,446,577	2,254,465	0.43	9.06	5,552,522	974,221	20,417,049
1924	1,237,492	25,785,701	214,743	140,702	25,926,403	2,868,073	0.43	9.03	6,473,972	1,241,726	25,872,600
1925	1,457,095	30,070,016	251,827	171,549	30,241,565	3,398,573	0.43	8.89	8,233,842	1,461,111	30,152,453
1926	1,492,760	30,858,790	249,330	149,717	31,008,507	3,696,482	0.40	8.39	10,879,138	1,497,312	30,952,317
1927	1,622,126	33,578,638	272,023	154,449	33,733,087	4,286,553	0.38	7.86	11,804,644	1,627,048	33,679,706
1928	1,574,365	32,549,264	248,226	143,366	32,691,630	4,224,154	0.37	7.73	12,949,399	1,578,412	32,631,922
1929	1,613,335	33,512,348	257,745	134,694	33,647,042	3,965,105	0.40	8.49	10,021,856	1,622,253	33,696,819
1930	1,712,154	35,430,045	299,680	190,900	35,539,945	3,945,223	0.43	9.00	11,133,704	1,736,009	35,923,157
1931	2,062,420	44,533,315	364,401	103,269	44,636,584	5,025,725	0.41	8.88	14,102,721	2,085,815	45,016,930
1932	2,264,708	52,949,382	445,796	117,959	53,067,341	5,497,086	0.41	9.65	16,157,174	2,287,391	53,418,277
1933	2,118,622	59,987,493	408,627	136,868	60,124,361	5,621,517	0.37	10.69	18,134,119	2,155,610	60,752,124
1934	2,044,963	70,725,769	432,905	204,027	70,929,796	6,413,010	0.32	11.06	26,361,868	2,105,338	72,808,295
1935	2,151,224	75,633,007	451,781	288,737	75,921,744	7,033,874	0.31	10.79	24,951,166	2,220,426	78,067,209
1936	2,316,181	80,737,800	489,305	214,154	80,951,954	7,747,413	0.30	10.45	29,664,372	2,389,558	83,308,201
1937	2,511,640	87,868,688	514,403	226,422	88,095,110	8,426,898	0.30	10.45	35,144,429	2,587,090	90,508,688
1938	2,816,250	99,123,445	538,795	228,048	99,351,493	9,583,590	0.29	10.37	32,164,137	2,896,477	101,945,441
1939	3,008,894	109,325,621	696,673	280,192	109,605,813	10,723,129	0.28	10.22	33,804,508	3,086,060	112,114,762
1940	3,170,823	122,081,379	1,477,176	544,603	122,625,982	11,768,173	0.27	10.42	34,841,615	3,261,688	125,579,597
1941	3,115,973	119,957,702	1,763,345	668,045	120,625,747	12,225,134	0.25	9.87	35,550,871	3,194,309	122,977,102
1942	2,692,831	103,680,812	1,326,457	548,793	104,229,605	10,650,450	0.25	9.79	25,940,061	2,763,822	106,413,978
1943	2,061,375	79,368,171	859,700	371,102	79,739,273	8,069,363	0.26	9.88	22,542,160	2,117,214	81,517,998
1944	1,676,532	64,545,735	620,014	257,274	64,803,009	6,800,569	0.25	9.53	19,544,228	1,731,838	66,675,006
1945	1,533,998	59,058,392	973,811	440,587	59,498,969	6,277,436	0.24	9.76	16,694,416	1,625,367	62,576,089
1946	1,761,846	64,548,697	851,005	714,082	65,262,779	7,264,483	0.24	8.98	15,665,779	1,801,294	65,998,448
1947	1,900,247	66,576,370	586,814	412,655	66,939,025	7,677,742	0.25	8.72	12,959,414	1,939,317	67,876,390
1948	2,055,668	71,948,537	826,641	618,602	72,567,139	8,538,543	0.24	8.50	12,315,172	2,095,424	73,339,904
1949	2,318,763	83,982,434	404,425	302,595	84,285,029	9,868,317	0.23	8.54	14,983,482	2,354,510	85,269,362
1950	2,444,842	92,836,874	418,188	335,938	93,172,812	10,288,611	0.24	9.06	17,276,092	2,481,113	94,216,874
1951	2,422,504	89,613,997	430,034	406,088	90,020,085	10,205,570	0.24	8.32	15,596,145	2,462,978	91,105,477
1952	2,469,793	86,036,012	408,731	336,265	86,372,277	9,999,455	0.25	8.63	15,463,263	2,513,701	87,540,620
1953	2,142,464	74,012,123	355,550	299,501	74,311,624	8,643,652	0.25	8.60	14,242,485	2,182,438	75,388,307
1954	2,315,211	78,887,092	390,963	323,710	79,210,802	9,277,714	0.25	8.54	15,530,063	2,361,387	80,460,251
1955	2,475,938	85,597,699	407,559	360,762	85,958,461	9,626,508	0.26	8.93	15,283,607	2,523,040	87,223,660
1956	2,468,582	84,928,343	407,997	364,776	85,293,119	8,952,216	0.28	9.52	15,242,549	2,513,912	86,489,962
1957	2,532,033	85,076,291	425,875	368,451	85,444,742	8,979,553	0.28	9.51	16,444,620	2,578,206	86,621,067
1958	2,660,194	90,278,471	442,249	380,951	90,652,422	9,810,679	0.27	9.74	14,875,158	2,716,514	92,192,231
1959	2,663,512	88,406,998	408,114	358,242	88,765,240	9,225,189	0.29	9.62	15,978,416	2,683,449	90,083,383
1960	2,666,533	90,528,795	442,629	393,541	90,222,336	9,336,756	0.29	9.74	15,921,685	2,732,673	92,774,248
1961	2,569,509	91,114,790	404,693	381,463	91,496,253	9,001,578	0.29	10.14	15,837,789	2,637,720	93,533,551
1962	2,355,096	88,104,140	397,200	462,738	88,566,878	8,441,064	0.28	10.49	17,230,119	2,421,249	90,578,924
1963	2,278,892	86,081,044	344,867	475,688	86,556,732	7,976,641	0.29	10.35	23,845,487	2,338,854	86,291,739
1964	2,097,592	79,195,500	365,856	512,197	79,707,697	7,648,968	0.27	10.42	22,991,022	2,155,370	81,365,217
1965	1,880,615	70,953,723	370,153	518,214	71,471,937	6,794,750	0.28	10.52	23,113,471	1,946,003	73,420,747
1966	1,593,336	60,273,251	313,426	438,483	60,711,734	5,939,243	0.27	10.22	22,612,666	1,660,750	62,626,883
1967	1,442,828	54,466,757	334,203	578,839	55,045,596	5,374,635	0.27		22,722,966	1,495,385	56,450,784
1968	1,309,159	49,368,386	329,232	761,514	50,129,900	4,638,252	0.28		23,972,304	1,379,779	52,031,466

FIGURE 5 — ONTARIO GOLD MINING AREAS
Their Location and Relative Importance



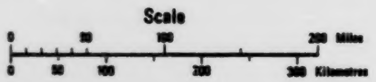
ODMNA 4743


HUDSON BAY
James Bay
LAKE SUPERIOR
MANITOBA
QUEBEC
U. S. A.
STULL LAKE – SANDY LAKE No. 2175
SWAN LAKE – SACHIGO R. No. 2177
BIG TROUT LAKE – NORTH CARIBOU LAKE No. 2232
FAVOURABLE LAKE – BEREN'S LAKE No. 2252
WINISK LAKE No. 2237
CAT LAKE – PICKLE LAKE No. 2218
FORT HOPE – LANSDOWNE HOUSE No. 2237
RED LAKE – BIRCH LAKE No. 2175
SIOUX LOOKOUT – ARMSTRONG No. 2442
KENORA – FORT FRANCES No. 2443
ATIKOKAN – LAKEHEAD No. 2065
NIPIGON – SCHREIBER No. 2232
GERALDTON No. 2100
CARAMAT – PAGWA No. 2203
MANITOUWADGE – WAWA No. 2220
HEARST – KAPUSKASING No. 2106
COCHRANE No. 2171
CORAL RAPIDS – COCHRANE No. 2181
CHAPLEAU – FOLEYET No. 2221
TIMMINS – KIRKLAND LAKE No. 2205
SAULT STE. MARIE – ELLIOT LAKE No. 2419
SUDBURY – COBALT No. 2361
P.426 STULL LAKE
P.427 SWAN LAKE
P.428 BLACKBEAR RIVER
P.429 WITEGOO RIVER
P.430 HARVECLAY LAKE
P.431 FINGER LAKE
P.432 ROTTEN-FISH RIVER
P.433 MUSKRAT DAM LAKE
P.434
P.712 BIG TROUT LAKES
P.711 WEAGAMOW LAKE
P.713 KASABONIKA-SHIBOGAMA LAKES
P.714 WINISKISIS CHANNEL
P.715 WAPIKOPA LAKE
P.716 WINISK LAKE
P.768 DEER LAKE
P.769 INDIAN VILLAGE-MOOSE MOUNTAIN
P.770 POPLAR HILL-PIKANGIKUM
P.771 SAMPSON LAKE-SHEARSTONE LAKE
P.806 UPPER WINDIGO LAKE-NORTHERN LAKE
P.807 FORESTER LAKE
P.808 SAVANT LAKE-LAKE ST. JOSEPH
P.809 ACHAPI LAKE-MISEHKOW RIVER
P.562 LANSDOWNE HOUSE-FORT HOPE
P.563 ATTAWAPISKAT RIVER
P.564 ATTWOOD-CARIBOU LAKES
P.565 MAKOKIBATAN-MELCHETT LAKES
P.2385 RED LAKE
P.2386 TROUT LAKE-BIRCH LAKE
P.2394 LOWER ENGLISH RIVER
P.2395 LAC SEUL
P.354 MINNISS LAKE
P.352
P.353 MINNITAKI-STURGEON LAKES
P.326 GARDEN-OGOKI LAKES
P.267
P.274 ONAMAN LAKE
P.257 NIPIGON
P.241 GERALDTON
P.549 WABABIMIGA-JOG LAKES
P.550 NAGAGAMI-MATTAWISHKWIA
P.551 CARAMAT
P.552 PAGWA RIVER-CALSTOCK
P.281 LAKE OF THE WOODS
P.242 MANITOU LAKES
RAINY LAKE
P.309 RAINY RIVER
P.293
P.183 IGNACE-ATIKOKAN
P.187 LAC DES ILES
P.188 QUETICO
P.177 LAKEHEAD-SHEBANDOWAN
RED ROCK-PINE PORTAGE
P.357
P.358 BLACK BAY
P.360 SCHREIBER
P.494 MANITOUWADGE
P.476 HORNEPAYNE
P.541 PUKASKWA
P.640 WAWA
P.395 PIVABISKA RIVER
P.396 LITTLE LONG RAPIDS
P.397 HEARST
P.398 KAPUSKASING
P.375 ONAKAWANA
P.376 PARTRIDGE RIVER
P.370 OTTER RAPIDS
P.371 KESAGAMI LAKE
P.372 COCHRANE
P.373 BURNTBUSH RIVER
P.672 MISSINAIBI L.
P.673 NORWOOD
P.674 CHAPLEAU
P.698 PAMOUR
P.140 IROQUOIS FALLS-LAKE ABITIBI
P.141 TIMMINS
P.150 KIRKLAND LAKE
P.151 GOGAMA
P.159 ELK LAKE-NEW LISKEARD
P.302 BATCHAWANA
P.303 SAULT STE. MARIE
P.304 BLIND RIVER-ELLIOT LAKE
P.300 WESTREE
P.301 MAPLE MOUNTAIN
P.321 HAILEYBURY
P.287 CARTIER
P.367 CAPREOL
P.394 TEMAGAMI
P.105 ESPANOLA
P.415 BURWASH
P.381 NORTH BAY
96°
94°
92°
90°
88°
86°
84°
82°
80°
55°
54°
53°
52°
51°
50°
49°
48°
47°
46°

2115	**Sheets published in colour** Scale: 1:253 440 or 1 inch to 4 miles
P.188	**Preliminary sheets published uncoloured** Scale: 1:126 720 or 1 inch to 2 miles

Figure 6

NORTHERN ONTARIO
INDEX TO
GEOLOGICAL COMPILATION SERIES


Scale
0
50
100
200 Miles
0
50
100
200
300 Kilometres

REVISED TO JANUARY 1982

Deposits containing gold tend to be in zones a few miles in width and many miles in length and may be associated with regional faults. The more important belts of Precambrian metavolcanic, metasedimentary, and associated intrusive rocks are the Porcupine Belt, the Matachewan-Kirkland Lake-Larder Lake Belt, the Red Lake Belt, and the Beardmore-Geraldton Belt. Less productive belts are Lingman Lake, Uchi Lake-Birch Lake, Lake of the Woods, Crow River, Michipicoten, Swayze River-Horwood Lake, Timagami Lake, Eastern Ontario, etc.

Ore Shoots:

Only a small part of the veins contain gold in economic quantities, and in other parts of the veins, gold mineralization may be below ore grade or be absent. Even within ore shoots the gold and associated sulphides are generally along fractures that are nearly parallel to the walls of the vein. Ore shoots conform to fold patterns as slight movements of the walls of the vein caused fracturing of the quartz and associated metallic and brittle minerals. Zones of a particular gold content may persist for hundreds of feet as shown by Howell vein of Pickle Crow Mine in Figure 7. Gold occurs in macroscopic particles and also in microscopic and submicroscopic particles. Some gold may be held in the lattice of pyrite and arsenopyrite and it is generally necessary to roast such ores in order to recover this part of the gold.

MAIN GEOLOGICAL TYPES

Tabular Zones, Veins, and Bodies

General Features

Many of these deposits are believed to result from a metamorphic process. The principal agents of metamorphism are carbon dioxide and water with smaller amounts of sulphur and arsenic. Quartz was removed from the rock for one or two feet on each side of the fracture and deposited in dilatant zones. The breakdown of plagioclase feldspar with the addition of carbon dioxide produced albite and calcite, and further breakdown of albite will produce white micas.

Pyroxenes and amphiboles with the addition of carbon dioxide and water produce chlorite, dolomite, ankerite, etc. Iron minerals react with sulphur and arsenic to produce pyrite, pyrrhotite and arsenopyrite. The resulting chemical equilibrium at elevated temperatures and pressures in places produces veins or stringers consisting mainly of quartz and carbonates with minor amounts of chlorite, sericite, albite, tourmaline, scheelite, pyrite, pyrrhotite, chalcopyrite, galena, sphalerite, etc. At a few localities gypsum, anhydrite, halite and barite are present.

Pickle Crow Mine
Gold Content of No.1 Vein

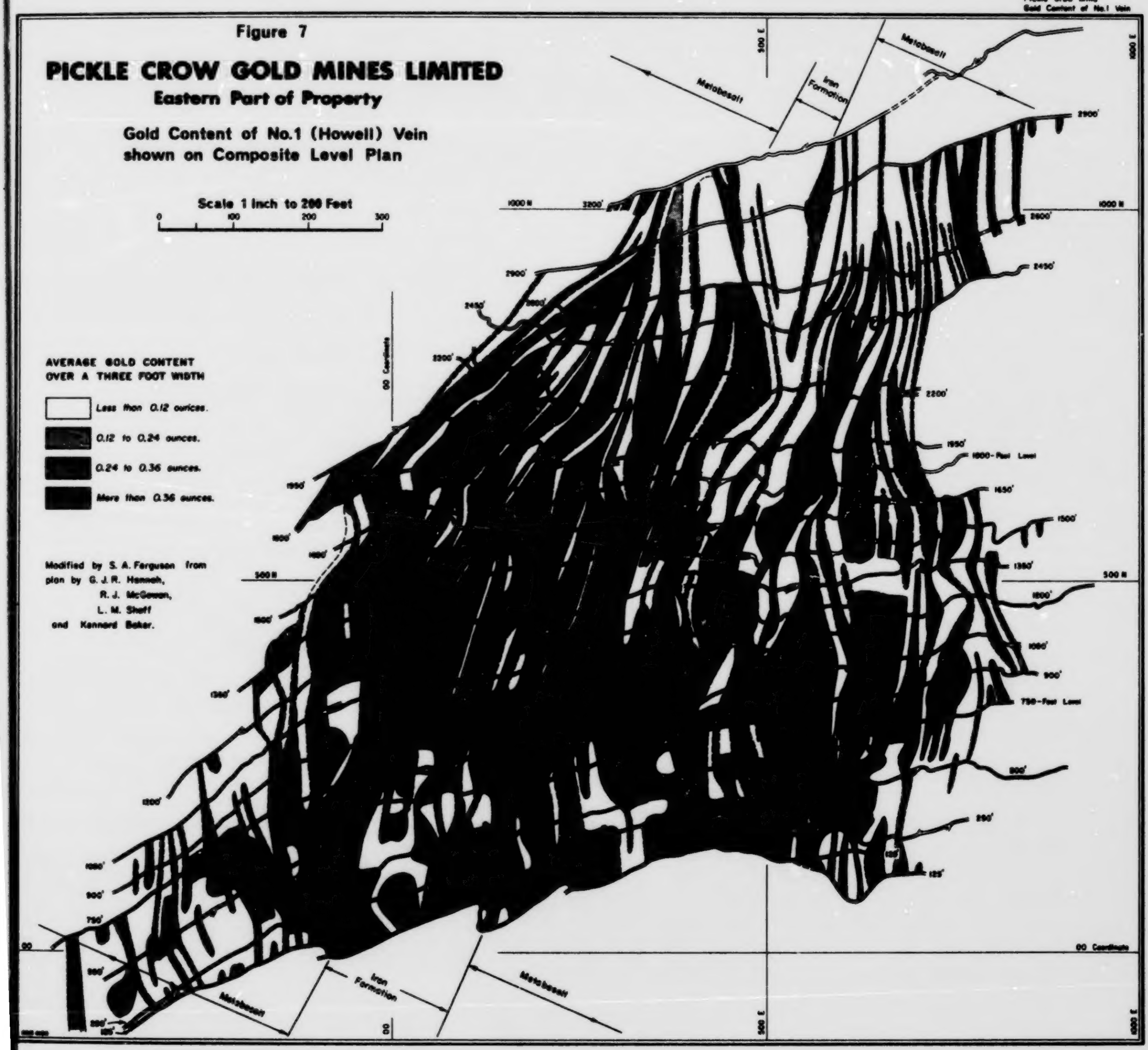


Figure 7

PICKLE CROW GOLD MINES LIMITED
Eastern Part of Property

Gold Content of No.1 (Howell) Vein
shown on Composite Level Plan

Scale 1 inch to 200 Feet

AVERAGE GOLD CONTENT
OVER A THREE FOOT WIDTH

☐	Less than 0.12 ounces.
■	0.12 to 0.24 ounces.
■	0.24 to 0.36 ounces.
■	More than 0.36 ounces.

Modified by S. A. Ferguson from
plan by G. J. R. Hannah,
R. J. McGowan,
L. M. Sheff
and Kennard Baker.

0
100
200
300
500 E
1000 E
1000 N
500 N
00
00 Coordinate
Metabasalt
Iron Formation
Metabasalt
Iron Formation
Metabasalt
Metabasalt
2900'
3200'
2600'
2450'
2300'
2200'
1950'
1800-Foot Level
1650'
1500'
1350'
1200'
1050'
900'
750-Foot Level
600'
250'
125'
750'

The contacts of the veins with the wallrock are sharp, which indicates that the vein minerals were deposited in open spaces and not by replacement of pre-existing rock. Most of the pyrite is in the wallrock adjacent to the vein and the amount of pyrite developed depends on the iron content of the wallrock minerals.

Gold deposits are frequently but not always adjacent to intrusive rocks which in most cases are porphyries (porphyritic granodiorite), but also include granodiorite and syenite. For deposits associated with mafic lavas, geochemical evidence suggests that the gold was concentrated from the mafic lavas by the metamorphic process. In some rocks auriferous pyrite was deposited as an accessory mineral. Energy in the form of heat and pressure was supplied by the intrusive rock emplacement.

Native gold is the most common mineral and nearly always contains some silver. As the silver content increases the colour becomes a lighter yellow to form the mineral electrum. Tellurides are the second most important gold-bearing minerals.

Host Rocks

Basalt:

Veins in these rocks are commonly from 0.5 to 3 feet in width, consisting of quartz and carbonates, with inclusions of partially digested wallrock parallel to the walls of the vein. A carbonate-chlorite-sericite zone is present on each side of the vein and is usually about one foot wide with an outer zone of chlorite schist about two feet wide. Many veins conform in strike with the structural trend but dip more steeply. Individual veins are from 100 to 300 feet in length with the vertical dimension from one to three times the horizontal length. Gold is present in the vein and in the pyritized wallrock adjacent to the vein. The mining width might be 6 feet consisting of 2 feet of vein material and 2 feet of wallrock on each side of the vein. Examples are Hollinger, McIntyre, etc. in the Porcupine area.

Rhyolite:

The ore zones at the Howey Mine and Hasaga Mine were quartz stringer zones in rhyolite (latite, quartz latite). These zones are up to 1,000 feet long, 10-80 feet wide and extend for 1,000 feet vertically. Within the orebodies there is a concentration of veins and stringers with the great majority of veins nearly vertical and at an angle of 20° to the strike. Gold occurs in tellurides and in a finely divided state in the quartz in close association with sphalerite, pyrite and galena.

Tuff:

At the Madsen Mine, Red Lake area, the orebodies are confined to a tuff bed of intermediate composition about 200 feet in width. The orebodies dip more steeply than the rocks enclosing the tuff bed, but may be parallel to minor folds within the bed. Biotite, sericite and quartz are the most abundant minerals in the ore zone with about one percent of pyrite and pyrrhotite. Native gold occurs as a coating on mineral grains and as small particles within quartz grains.

Conglomerate:

Zones in the Pamour Conglomerate at the Pamour Mine are 600 feet long, 80 feet wide and 600 feet vertically and contain closely spaced, parallel quartz veins and stringers. The veins strike at an angle of 25° to 50° to the bedding and dip across the bedding. Pyrite is the most abundant sulphide and native gold is present in the veins and in minute fractures in the pyrite.

Greywacke, etc:

At Leitch Mine a vein system occurred in greywacke cutting across the bedding in both strike and dip. Veins vary in width from 0.3 to 4 feet, are 40 to 500 feet in length and persist vertically for more than 3,000 feet. The veins consist mainly of quartz with streaks of mineralized schist. Narrower sections of the vein are higher grade and veins more than 4 feet in width were not of ore grade. No gold was present in the wallrock and most of the gold occurs as clusters of very small particles associated with quartz.

Iron Formation:

At the Central Patricia Mine orebodies were from 30 to 250 feet long, 12 feet wide and extend almost continuously for a vertical distance of 3,000 feet. Quartz veins and stringers occur in groups a few feet apart and strike and dip across the bedding. The veins are restricted to the iron formation and abundant pyrrhotite and arsenopyrite has been developed. Gold is in very fine particles coating mineral grains or in minute fractures in the sulphides. Mineralization of this type is widespread and occurred at the Hard Rock and MacLeod Mines.

Syenite, Porphyry:

At Kirkland Lake, 95 percent of the ore has come from within or along the contacts of syenite bodies. The average stoping width is about 6 feet and some ore shoots are several thousand feet in length. Quartz stringers constitute a small amount of the ore and contain about 2 percent pyrite and most of the gold. Gold occurs as the native metal and in the tellurides, calaverite and petzite, and also along the boundaries of quartz grains and in fractures in the vein minerals and in the wallrock.

At the Young-Davidson Mine, part of a syenite dike was mined by an open cut method over a surface area 500 by 300 feet and to a depth of 865 feet. The brick-red phase of the syenite contained 2 percent disseminated pyrite and 30 to 50 percent of the gold was present as fine inclusions in the pyrite. Superimposed on parts of the syenite are microscopic fractures containing gold and the combined gold content of these zones produces a grade of 0.1 ounces per ton.

Granite:

At Renabie Mine, the D zone is an irregular chimney of quartz 260 feet long, 50 feet wide, which extends continuously from surface to a depth of at least 2,500 feet. Vein material is quartz cut by later quartz veinlets and about one percent pyrite is present in tiny grains. All the quartz of the D zone is ore with a grade of 0.37 ounces of gold per ton. The gold is present in very small flakes clustering around the pyrite. The chimney of quartz is in a felsic zone of a batholith of granodiorite, about 500 feet from the outer contact.

Carbonate Rocks:

Zones of carbonate rocks which may be either of sedimentary or metamorphic origin are associated with basalt or argillite. At the Aquarius prospect in Macklem Township, Porcupine area, a zone contains abundant dolomite with aplite and quartz stringers forming 10 to 20 percent of the rock. The zone is 3,000 feet long and 400 feet wide with the best mineralization in a part of the zone 800 feet long and up to 150 feet wide. Native gold occurs in the quartz stringers associated with the sulphide minerals.

Sulphide Deposits

Pyritized Zones

Pyrite is present in irregular zones up to 100 feet in length and persistent vertically for several hundred feet. Within the bleached host rock (usually basalt) pyrite forms 5 to 15 percent of the rock and gold is present as very fine particles within the pyrite. Examples of this type of deposit are the Moneta Mine and parts of Dome, McIntyre, Paymaster and Preston Mines.

Arsenopyrite Zones

In Strathy Township, Timagami area, narrow zones of massive sulphides consist mainly of arsenopyrite and pyrrhotite with small amounts of pyrite, chalcopyrite and gold. At the Big Dan property one lens was 50 feet long and one foot wide and similar occurrences are present at the Little Dan (Manitoba and Eastern) showing.

Placer Deposits

Indurated Precambrian Placers

In the upper part of the Witwatersrand system, South Africa, conglomerate beds contain one of the world's largest gold deposits with a small amount of radioactive minerals. In the Elliot Lake area of Ontario, a similar type of deposit contains larger amounts of radioactive minerals but such a small amount of gold that it is not recovered from ores of radioactive minerals.

Pre-Pleistocene Placers

Placers formed by weathering before the Pleistocene may have escaped destruction by glacial ice in some localities. In Gauthier and McElroy Townships, Kirkland Lake area, a buried valley was found containing some gold in the sediments by using aerial photographs supplemented by a seismic survey.

Pleistocene Placers

Many eskers and gravel deposits were formed by Pleistocene glacial streams. At the Hollinger gravel claims, Porcupine area, and in an esker in Munro Township east of Matheson, placer gold is present in the gravel.

Recent Placers

Placer gold occurrences of possible economic interest occur to the north of Sudbury along the Vermilion River in Hutton Township. It appears likely that modern stream action is reworking Pleistocene placer material, and possibly pre-Pleistocene placer.

THE FUTURE OF GOLD MINING

Dimensions and Grade of Deposits

In the past, most gold deposits were tabular zones with individual orebodies usually less than 400 feet long, 6 feet wide and 500 feet deep. The mines and mills developed to handle these ores, handle a relatively small daily tonnage and also a great deal of money and time is expended in extending mine workings, diamond drilling, sampling, assaying, geological studies for the purposes of grade control, and in the search for new orebodies. Because of high labour costs and a fixed price for gold, such deposits are no longer ore unless a fairly substantial tonnage is available and the gold content is at least 0.5 ounces per ton.

New gold mines should be large scale operations similar to the operations of porphyry copper deposits. A minimum tonnage objective might be 50,000,000 tons or a deposit 1,000 feet long, 500 feet wide and 1,000 feet deep, although the largest porphyry copper deposit in Canada has an orebody 20 times this size. Grade requirements for such an orebody would be about 0.1 ounces of recoverable gold per ton so that the value of the metal would be $3.50 to $4.00.

Mining and Milling Methods

Conventional methods of breaking and haulage in open pit operations cost about $0.50 per ton. In addition to removing the ore it is frequently necessary to move large tonnages of waste rock to maintain the desired slope of the pit walls. Moving 20,000,000 tons of waste by conventional methods would cost $10,000,000 but using nuclear explosives would cost about $1,000,000. However, the nuclear explosion would leave the excavated material as a rim around the crater and if the orebody extended to surface would cause some mixing of the ore and waste rock.

Another approach might be to fragment the ore in place, using nuclear explosives and dissolve the metals by circulating solutions. Large volumes of material would not have to be excavated and relocated elsewhere. As fine grinding is necessary for most gold ores, it is probable that obtaining a satisfactory recovery might be difficult. The United States Bureau of Mines is experimenting with heap leaching of gold ores crushed to a diameter of less than four inches with a gold content as low as 0.02 ounces per ton (Northern Miner, April 23, 1970, p.425).

Planning

It is highly desirable to have much of the ore blocked out before mining and milling operations begin. Such a procedure allows for financial and engineering planning for economic recovery. Also it allows for advance planning as to how the mine area is to be left when operations cease, how the waste rock and mill tailings will be disposed of, possibly to improve the area, and the deposition of waste water.

New Exploration Methods

In the past, emphasis has been on looking for small high grade deposits but we should be looking for large low grade deposits. Many precise assay determinations will have to be made preferably using low cost, rapid methods. Numerous calculations of tonnages and grade and ore outlines will have to be made probably with the assistance of a computer.

A geochemical anomaly was found at Cortez, Nevada, in 1966 by officers of the United States Geological Survey. Gold values were determined by colorimetric and atomic absorption methods and the area previously known to be anomalous in arsenic, antimony and tungsten has been found to be anomalous also in mercury and gold. Subsequent exploration outlined an open pit deposit of 3.4 million tons containing 0.29 ounces of gold per ton (Econ. Geol. Vol.64, 1969, p.526-527). Gold is in micron-sized particles of native gold associated with silica between original silt grains, in quartz filled microfractures and in pseudomorphs after pyrite. The host rocks are Silurian dolomitic limestone and dolomitic siltstone containing sparse pyrite which has altered to leave a residue of iron oxides. The gold is so fine grained that it cannot be recovered by panning and consequently this deposit was not discovered by prospectors.

The United States Geological Survey has experimented with determining the precious metal content of rocks by a neutron activation method. After bombardment of the rock readings can be made at intervals of the secondary radioactivity and the gold content determined.

The gold content of eskers and of basal till has been correlated with concentrations of gold in the underlying bedrock. The Munro esker was sampled over a length of 65 miles and several anomalous peaks ranging from 2 to 10 times background counts were obtained for gold particles larger than 10 microns (0.01 millimetres). This study (Lee, GSC Paper 65-14) indicated a maximum concentration of gold in this size range at a distance of about 2 miles from the source. Lee (GSC Paper 63-45) also studied gold particles in basal till to the south of the mines of Kirkland Lake. Plotting the number of gold particles visible to the unaided eye in a riffle concentrate from samples of the till indicated a dispersion pattern for more than 4,000 feet downice from the source.

DESCRIPTION OF DEPOSITS

ALGOMA DISTRICT

ABERDEEN TOWNSHIP

Kirk Gold Prospect

Main Metals: Au.

Location: On southeast shore Aberdeen Lake in Aberdeen Township, part of SE1/4, S1/2 lot 11, con. V.
Map Reference: ODM Map 2108, Sault Ste. Marie-Elliot Lake Sheet.

Geology: Diabase contains quartz vein 2 to 8 feet wide and dipping 55°S.

History: 1919-21: Shaft inclined at 55° is 126 feet in depth. On the 50-foot level 360 feet of drifting. An adit with the portal near the shaft collar was driven east for 625 feet.

References: ODM Vol.29, pt.1, p.68-69
ODM Vol.30, pt.1, p.64
ODM Vol.31, pt.10, p.21.

GALBRAITH TOWNSHIP

Havilah Mine (Past Producer)

Main Metals: Au, Ag.

Location: Twelve miles north of Bruce Mines, Galbraith Township, southwest part, lot 12, con. III.
Map Reference: ODM Map 2108, Sault Ste. Marie-Elliot Lake Sheet.

Geology: Mississauga quartzite has been intruded by Keweenawan diabase. The Main vein is within the diabase, strikes N75°E and dips 80°S. It has been traced for a distance of 1,300 feet and varies in width from 7 feet to 1-1/2 feet. Quartz and carbonate are the main constituents of the vein with streaks of chlorite and small amounts of chalcopyrite, pyrite and native gold.

History: 1892-94: Two shafts and drift or adit near surface, 105 feet long, by Ophir Gold Mining Company.
1900: Irregular stope near surface, 150 feet by 50 feet, by Ophir Mines Development Company.
1922: Shaft believed to be 105 feet deep. The 83-foot level extended to 183 feet by Kirk Gold Mines Limited.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1893,1894				
1900,1910				
1911	1,030	214	26,535	6,589

(ODM Statistical Files, Havilah Gold Mines Ltd.).

References: OBM Vol.4, p.231-233
ODM Vol.32, pt.6, p.29
GSC Mem.143, p.116-118.

HAWKINS TOWNSHIP

Shenango Prospect

Main Metals: Au, Ag.

Location: Central part of Hawkins Township, 3/4 mile east of Langdon, workings on claims SSM4332 and SSM4790.
Map Reference: ODM Map P.476, Hornepayne Sheet.

Geology: Mafic metavolcanics cut by auriferous quartz veins.

History: 1935-39: At least 1,800 feet of trenching and some pits. From bottom of a pit on SSM4332 an adit was driven 90 feet and 40 feet of crosscutting was done. Two shafts were sunk, No. 1 to 52 feet on unrecorded claim, and No. 2 on SSM7490 to 125 feet, with a level at 125 feet on which 20 feet of drifting and 6 feet of crosscutting were done. Diamond drilling totalled 3,900 feet from more than 5 holes. A 50-ton mill was constructed. Work by Shenango Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1936,1937				
1945	67	37	2,457	2,400*

(ODM Statistical Files, Shenango Gold Mines Ltd.).
*See ODM 1968, M.P.20, p.6.

References: ODM Vol.45, pt.1, p.157
ODM Vol.46, pt.1, p.200-201
ODM Vol.47, pt.1, p.205
ODM Vol.48, pt.1, p.197
ODM Vol.49, pt.1, p.198.

LIZAR TOWNSHIP

Hiawatha Mine (Past Producer)

Main Metals: Au, Ag.

Location: Central part of Lizar Township and west shore of Kabinakagami Lake.
Map Reference: ODM Map P.476, Hornpayne Sheet.

Geology: Mafic metavolcanics have been intruded by a narrow quartz porphyry dike which is bordered to the north by an auriferous quartz vein 2 to 14 inches wide and at least 2,800 feet long. The vein and dike, striking about N65°E and dipping vertically have been offset to the southwest by a fault some 1,300 feet west of the shaft. Associated minerals are pyrite, chalcopyrite, galena and molybdenite. The average recovery of gold was 0.09 ounces per ton of ore milled.

History: 1937-39: Vertical shaft 299 feet, levels at 150 and 275 feet with 3,394 feet of drifting and 2,717 feet of crosscutting, 13,034 feet of surface drilling and 2,940 feet of underground drilling. A 25-ton mill operated intermittently by Hiawatha Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1937,1939 1940	179	31	6,826	1,931

(ODM Statistical Files, Hiawatha Gold Mines Ltd.).

References: ODM Vol.47, pt.1, p.132
ODM Vol.48, pt.1, p.121
ODM Vol.49, pt.1, p.125-126
ODM M.P.20, p.10.

TOWNSHIP 27, RANGE 25

Alden-Goudreau Mine (Past Producer)

Main Metals: Au, Ag.

Location: Seven miles southeast of Goudreau, Township 27, Range 25, northeastern part, on southeast side of Smith Lake. Claim AC2120.
Map Reference: ODM Map P.184, Michipicoten area.

Geology: The country rocks are mafic lavas which are intruded by feldspar porphyry dikes. The veins are short and lenticular with one vein on surface up to 14 feet in width. In the underground workings a vein 6 to 8 feet in width changed along strike to a stringer zone 10 feet wide. The dip of the veins is very irregular varying from 20° to 50°.

History: 1928-29: Trenching, sampling and an adit driven with 300 feet of crosscutting and 200 feet of drifting. Raise 45 feet in length connects the adit with surface. Work by Towagmac Exploration Company.
1934: Adit driven 33 feet and 367 feet of drifting by Orecana Trusts Ltd
1937: Production by Alden-Goudreau Mines Ltd.
1940-43: Winze inclined at 32° sunk to a depth of 80 feet below the adit with a level at 60 feet. Total lateral work on the adit and 60-foot level 1,359 feet. Work by Regnery Metals.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1937,1940 1943,1945	3,220	1,156	124,353	13,479

(ODM Statistical Files, Regnery Metals, Alden-Goudreau Mines).

References: ODM Vol.38, pt.1, p.149
ODM Vol.40, pt.4, p.36
ODM Vol.44, pt.1, p.131
ODM Vol.53, pt.1, p.154.

TOWNSHIP 28, RANGE 24

Murray-Algoma Prospect

Main Metals: Au.

Location: Two miles west of Hawk Junction, Township 28, Range 24, northeast part. Claims AC2301, AC2303, etc.
Map Reference: ODM Map P.184, Michipicoten area.

Geology: Mafic and felsic lavas are intruded by quartz porphyry. The main showing strikes east and consists of several parallel or interlacing veins in a zone 50 feet wide and 200 feet long. The northwest showing is a quartz vein 9 to 12 feet in width exposed in a series of trenches. The Blacksmith vein strikes N70°E is up to 10 feet in width and has been trenched for 500 feet. The vein quartz is accompanied by pyrite, chalcopyrite, pyrrhotite, sphalerite and native gold.

Economic Features: Surface sampling indicated 0.18 ounces of gold per ton over a width of 5 to 6 feet, and assays reported from diamond drilling are 0.2 ounces of gold per ton over 3.5 feet, 0.13 ounces of gold per ton over 5.5 feet and 0.13 ounces of gold per ton over 2.5 feet (Mineral Resources Branch, file, Murray-Algoma).

History: 1934-36: Trenching, sampling and about 1,500 feet of diamond drilling by Murray-Algoma Mining Company Ltd.
1937: About 500 tons of surface ore was mined and tested in the amalgamation mill rated to treat 30 tons per day. Work by Murray-Algoma Mining Company Ltd.

References: ODM Vol.40, pt.4, p.41
ODM Vol.44, pt.8, p.18-19
ODM Vol.47, pt.1, p.177-178
Mineral Resources Branch, file, Murray-Algoma.

TOWNSHIP 28, RANGE 24

Reed-Booth Prospect

Main Metals: Au.

Location: Six miles west of Hawk Junction, Township 28, Range 24. Claims SSM3041 to 3046.
Map Reference: ODM Map P.184, Michipicoten area.

Geology: Mafic lavas have been intruded by quartz porphyry. Two parallel vein zones have been traced for 1,000 feet with the more westerly zone within the porphyry. The zones of silicification contain pyrite, chalcopyrite, galena, sphalerite and native gold. The zones strike N25°W and dip steeply northeast. On surface the mineralized zone is from 7 to 20 feet in width with the better mineralized parts containing from 0.25 to 1.5 ounces of gold per ton. In the shaft the average value was 0.25 ounces of gold per ton over a width of 7 feet.

History: 1938-39: Trenching, diamond drilling and shaft to 125 feet by Soocana Mining Company Ltd.

References: ODM Vol.44, pt.8, p.18
Canadian Mines Handbook 1938, p.259
Mineral Resources Branch, file, Reed-Booth (Soocana).

TOWNSHIP 28, RANGE 25

Peter Edwards Prospect

Main Metals: Au.

Location: Township 28, Range 25.
Map Reference: ODM Map P.184, Michipicoten area.

Economic Features: Gold-bearing sulphide mineralization extends for 1,000 feet. The better assays from trenches ranged from 0.01 ounces of gold per ton over 2 feet to 0.6 ounces of gold per ton over 2.4 feet.

History: 1929, 1933, 1941: Test mill operated by Peter Edwards.
1959-60: Diamond drilling by Peter-Rock Mining Company Ltd.

Production:

Years	Gold ounces	Total Value dollars	Ore Milled tons
1929,1933 1941	28	694	46

(ODM Statistical Files, Edward, Peter).

References: Mineral Resources Branch, file, Peter-Rock (Edwards Property).

Holdsworth Prospect

Main Metals: Au, Ag.

Location: Twelve miles northeast of Wawa, Township 28, Range 25.
Map Reference: ODM Map P.184, Michipicoten area.

Geology: The vein is enclosed within mafic lavas and has been traced for 3,000 feet and varies in width up to 12 feet. The quartz vein contains small amounts of tourmaline, sericite, pyrite, chalcopyrite, pyrrhotite and galena.

History: 1933-34: Soocana Mining Company Ltd. optioned the property from Holdsworth Gold Mining Company Ltd. and milled some vein material taken from an open cut.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1933	10	5	282	60

(ODM Statistical Files, Soo Mining and Prospecting Syndicate).

References: ODM Vol.44, pt.8, p.17-18
Canadian Mines Handbook 1935, p.229
Mineral Resources Branch, file, Holdsworth).

TOWNSHIP 28, RANGE 26

Goudreau Mine (Past Producer)

Main Metals: Au, Ag.

Location: Township 28, Range 26, central part, 4 miles southwest of Goudreau. Shafts on claim AC408.
Map Reference: ODM Map 49g, Goudreau-Lochalsh area.

Geology: Mafic metavolcanics cut by felsic and mafic intrusives, and veins. The main vein, strike N65°-90°W, dip 60°-80°S has been traced for 2,000 feet and is from 6 inches to 11 feet wide. Recovery of gold averaged 0.11 ounces per ton of ore milled.

History: 1922-26: Pitting, trenching and 2 shafts sunk, No. 1, inclined 68°, to a vertical depth of 400 feet, levels at 100, 200 and 400 feet; No. 2 shaft to 200 feet, joined to No. 1 shaft at 200-foot level. Drifting totalled 1,629 feet and crosscutting 1,142 feet. A 50-ton mill installed. Work by Goudreau Gold Mines Ltd.
1927: Surface exploration and diamond drilling under direction of C.S. Johnston.
1930: Sub-levels established on No. 1 shaft at 130 and 160 feet, and a 10-foot winze sunk from 100-foot level. Drifting totalling 130 feet. Work by Bennett-Pacaud Mines Ltd. Surface work by F. Brandt.
1934-38: Drifting totalling 2,075 feet and crosscutting 95 feet. Mill reconditioned. Work by Algold Mines Ltd.
1960: Diamond drilling of 15 surface holes totalling 3,258 feet. Work by Golden Algoma Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1926,1932 1936-38,1940	2,450	351	84,576	23,211

(ODM Statistical Files, Norgold Mines Ltd., Algold Mines Ltd., New Goudreau Gold Mines Ltd., Goudreau Gold Mines Ltd.).

References: ODM 1921, Vol.30, pt.4, p.39-42
ODM 1931, Vol.40, pt.4, p.20-25
ODM 1940, Vol.49, pt.3, p.43-47
ODM 1960, Vol.69, pt.2, p.23-24
ODM 1961, Vol.70, p.29
Canadian Mines Handbook 1964, p.131

Kozak Prospect

Main Metals: Au, Ag.

Location: Three and a half miles south of Goudreau, Township 28, Range 26,

southeast part of township east side of Kozak Lake.
Map Reference: ODM Map 40e, Goudreau gold area.

Geology: The rock associated with the mineralization is quartz-sericite schist with schistosity striking N85°E and dipping steeply north. Stripping at intervals shows that the mineralized zone persists for at least 700 feet and is at least 130 feet in width. Quartz stringers contain small amounts of sphalerite, galena, pyrite, chalcopyrite and argentite. Secondary native silver occurs in a very thin zone at the surface.

Economic Features: Sampling indicated the presence of rich patches separated by masses of lean or barren schist. An average of $4 to $5 (0.2 to 0.5 ounces) of gold per ton was obtained over a width of about 100 feet. Diamond drilling in 1960-1961 indicated numerous mineralized pods. The best was estimated as 4,600 tons averaging 0.303 ounces of gold and 17.5 ounces of silver per ton.

History: 1927: Trenching and sampling by Nipissing Mining Company and N. Timmins Inc.
1933-34: Shaft to 110 feet and 316 feet of lateral work on the 100-foot level by Orecana Trusts Limited.
1952: Sampling both surface and underground by American Yellowknife Gold Mines Ltd.
1960-61: Electromagnetic survey and diamond drilling by Adonis Mines Ltd.
1967-68: 1,116 feet of underground drilling by Lake Kozak Mines Ltd.

References: ODM Vol.37, pt.3, p.78
ODM Vol.40, pt.4, p.25
ODM Vol.44, pt.1, p.131
Canadian Mines Handbook 1961, p.4
Canadian Mines Handbook 1968-69, p.193
Mineral Resources Branch, file, Kozak (Kozak Lake).

TOWNSHIP 29, RANGE 22

Centennial Mine (Past Producer)

Main Metals: Au.

Location: Six miles southeast of Wawa, Township 29, Range 22, northeast quarter of the township. Claims CB1-2, Y333-337.
Map Reference: ODM Map 36a, Michipicoten area.

Geology: The Kitchigammi vein is adjacent to an inclusion of mafic lava within a granodiorite batholith. The contact of the batholith with metabasalt is about 1/8 mile to the west. The vein strikes northwest and dips 45°NE and has been exposed for more than 360 feet.

History: 1904-05: Three shafts put down to 90, 100 and 110 feet by Kitchi-Gammi Mining Company Limited.
1937-39: Inclined shaft to a depth of 262 feet with 125- and 250-foot levels and 3,717 feet of drifts and crosscuts by Agawa Gold Mines Ltd. A 50-ton mill constructed.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1939-40	610	36	22,397	8,612

(ODM Statistical Files, Agawa Porcupine Mines Ltd.).

References: ODM Vol.19, pt.1, p.89
ODM Vol.36, pt.2, p.41
ODM Vol.49, pt.1, p.73.

Manxman Prospect

Main Metals: Au.

Location: Five miles south of Wawa, Township 29, Range 22, and Township 30, Range 22. Claims BY58, BY62, etc.
Map Reference: ODM Map 36a, Michipicoten area.

Geology: The Norwalk vein is within granodiorite, strikes east and dips 35°S. Mineralization consists of a quartz vein about one foot in width containing pyrite and arsenopyrite. At the Fred C. shaft the vein strikes northwest and is adjacent to mafic lava and diabase, and where intersected on the first level was 24 feet in width. Lenses of massive pyrrhotite and some chalcopyrite are associated with the quartz.

History: 1901-04: Shaft inclined 30°S, sunk to 83 feet by Manxman Gold Mining Company.
1909-10: Main shaft deepened to 210 feet on the incline with levels at 100 and 200 feet and 145 feet of drifting.
Fred C. shaft sunk to 128 feet with 50 feet of lateral work on the 50-foot level.
1963: Diamond drilling by Candore Explorations Ltd.

Production:

Years	Gold ounces	Total Value dollars	Ore Milled tons
1904,1910	60	1,412	820

(ODM Statistical Files, Manxman Gold Mining Company; Norwalk Mining Company).

References: OBM Vol.11, pt.1, p.238
OBM Vol.19, pt.1, p.89
ODM Vol.36, pt.2, p.39-40
GSC Mem.192, p.86
Mineral Resources Branch, file, Norwalk (Manxman) Mine.

TOWNSHIP 29, RANGE 23

Cooper Mine (Past Producer)

Main Metals: Au, Ag.

Location: East-central part of Township 29, Range 23, 1-1/2 miles southeast of Mackey Point of Wawa Lake and northeast of Minto Mine. Shafts on SSM3090 and SSM4020.
Map Reference: ODM Map 36a, Michipicoten area.

Geology: Metavolcanics and mafic and felsic intrusives are cut by the Ganley vein and its continuation, the Cooper vein, which strike N30°W and dip 45°E. Gold mineralization is erratic and mainly in vugs, but becomes more consistent where sulphides are more abundant.

Ownership: Surluga Gold Mines Ltd.

History: Between 1898 and 1926: 50-foot vertical shaft sunk on claim SSM4020 (Ganley) and a shaft inclined 45° sunk to 65 feet on claim SSM3090 (Cooper) by unknown operators.
1926-30: Trenching and at least 1,346 feet of surface diamond drilling, work by Cooper Gold Mines Ltd.
1931-39: Level cut at 50-foot depth with 210 feet of drifting at shaft on SSM3090. Work by Minto Gold Mines Ltd.

Production: 1938: 4,889 tons of ore were milled at the Minto Mine. Production statistics integrated with those for Minto Mine.

References: ODM Vol.35, pt.1, p.95-96
ODM Vol.36, pt.1, p.99-100
ODM Vol.45, pt.1, p.140
ODM Vol.48, pt.1, p.167-168.

Deep Lake Mine (Past Producer)

Main Metals: Au, Ag.

Location: Three miles southeast of Wawa, 1/4 mile north of Deep Lake and 1 mile northeast of Smith, S.B. Mine, Township 29, Range 23, central. Claims SSM6971 and SSM6969.
Map Reference: ODM Map 36a, Michipicoten area.

Geology: The Deep Lake vein occurs within andesite, strikes N40°W, dips 33°NE, and persists on surface for 600 feet. Gangue minerals are quartz with small amounts of carbonate and tourmaline. Sulphide minerals are pyrite, pyrrhotite, chalcopyrite and galena. Native gold generally occurs as fine particles but in a few places coarse gold occurs associated with sphalerite and galena.

Economic Features: The shaft was sunk on a rich ore shoot which on the first level was 35 feet long and about 1-1/2 feet in width.

History: 1936-37: Shaft inclined at 33° was sunk to an inclined depth of 155 feet with 435 feet of drifting and 60 feet of crosscutting on the 100-foot level. An amalgamation mill of 20-ton capacity per day operated part of the time. Work done by J.C. Canfield, W.H. Hocking and Deep Lake Gold Mines Syndicate.
1938: Shaft deepened to 200 feet and a small amount of lateral work done on this level by Deep Lake Gold Mines Limited.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1936-38 1943	1,633	57	57,180	2,790

(ODM Statistical Files, Deep Lake Gold Mines).

References: ODM Vol.44, pt.8, p.80-81
ODM Vol.46, pt.1, p.110
ODM Vol.47, pt.1, p.112
ODM Vol.48, pt.1, p.101-102.

Golden Reed Prospect

Main Metals: Au.

Location: Four miles southeast of Wawa, Township 29, Range 23, shaft on claim JL84.
Map Reference: ODM Map 36a, Michipicoten area.

Geology: An accurate band of granitic and dioritic rocks intrude mafic lavas. Quartz veins up to three feet in width are enclosed within granodiorite. Small amounts of pyrite and chalcopyrite occur in the vein. One vein strikes slightly north of east and the other is at right angles to it.

History: 1907-09: Shaft inclined at 60° sunk to a depth of 46 feet by Golden Reed Mining Co. Sometime later an adit was driven west on the vein from near the collar of the shaft.

Production:

Years	Gold ounces	Total Value dollars	Ore Milled tons
1908	6	125	3

(ODM Statistical Files).

References: OBM Vol.18, pt.1, p.91-92
ODM Vol.36, pt.2, p.41-42.

Grace Mine (Past Producer)

Main Metals: Au, Ag.

Location: Three miles south of Wawa, Township 29, Range 23. Shaft on claim DJ7.
Map Reference: ODM Map 36a, Michipicoten area.

Geology: Mafic volcanics and agglomerates are intruded by small masses of porphyry, diorite and granodiorite. The agglomerate strikes N30°E and dips 35°NW. The veins cut all rocks except diabase and lamprophyre dikes. The Grace vein strikes N30°W and dips 70°NE, and the east-west vein dips 40°S. The veins occur as a succession of lenticular bodies and individual veins are less than 100 feet in length and up to 5 feet in width. The Grace vein consists of quartz mineralized with arsenopyrite, small amounts of sulphides and locally pockets with abundant native gold. In the east-west vein pyrrhotite and pyrite are the most abundant sulphides and little arsenopyrite is present. Three ore shoots were found in the Grace vein and two ore shoots in the east-west vein.

History: 1900-03: Inclined shaft 67°E to 304 feet with levels at 100, 200 and 300 feet. Work by The Algoma Commercial Company.
1926-27: Shaft deepened to 400 feet and 200 feet of drifting on this level. Work by Power and Mines Corporation Ltd.
1934-37: Inclined shaft deepened to 900 feet. No. 2 shaft sunk 830 feet with winze to the 900-foot level. New levels were at 600, 700 and 800 feet with total lateral development of 13,148 feet. Work by Darwin Gold Mines Limited.

Production:

Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
15,191	1,363	546,852	45,528

Years of Production: 1902, 1903, 1907, 1908, 1910, 1923, 1925, 1930, 1935, 1937, 1940, 1943, 1944.
(ODM Statistical Files, Darwin Gold Mines, United Algoma Mines Ltd., Grace Gold Mining Co. Ltd.).

References: OBM Vol.12, pt.1, p.64-65
ODM Vol.36, pt.2, p.30-34
ODM Vol.44, pt.8, p.81-83
ODM Vol.47, pt.1, p.110-111.

Hillside Prospect

Main Metals: Au.

Location: About 1-1/2 miles northeast of Wawa Gold Fields Occurrence, Township 29, Range 23, northeast portion. Adit on claim SSM4925 on south shore Wawa Lake and on claim SSM7367.
Map Reference: ODM Map P.184, Michipicoten area.

Geology: Country rocks consist of felsic volcanics.

History: Prior to 1934: Adit driven 52 feet on SSM7367 by unrecorded operator.
1934-35: Adit driven 790 feet and 49 feet of crosscutting on claim SSM4925. Adit on SSM7367 continued to 108 feet. Work by Hillside Gold Mines Ltd.
1936: Adit on SSM4925 extended to 890 feet. 1,935 feet of diamond drilling. A 20-ton mill treated about 200 tons of rock from the adit. Work by Hillside Mines Limited.

References: ODM Vol.44, pt.1, p.99
ODM Vol.46, pt.1, p.143-144.

Mackey Point Prospect

Main Metals: Au.

Location: North-central part of Township 29, Range 23, at Mackey Point, southeast shore of Wawa Lake. Shafts on Y103, and Y104 (approximately equivalent to area covered by SSM61959, 61967, 61958, 61965).
Map Reference: ODM Map 36a, Michipicoten area.

Geology: Mafic metavolcanics intruded by granodiorite are cut by auriferous veins striking northeasterly. Native gold occurs in vugs associated with tourmaline and minor quantities of sulphides.

Ownership: Surluga Gold Mines Ltd.

History: 1897-1900: Stripping, and shaft sunk approximately 40 feet deep with 30 feet of crosscutting, on claim Y103. Work by J.J. Mackey and J.L. Caverhill, or possibly The Great Northern Mining Exploration and Development Corporation of Ontario Ltd.
1933-36: Two shafts sunk on claim Y104; No. 1 inclined 25° to a depth of 252 feet, levels at 130 and 230 feet. Drifting totalled 183 feet, crosscutting 61 feet and diamond drilling 4,835 feet. Shaft No. 2 to 41 feet. Work by Consolidated Mining and Smelting Co. of Canada Ltd.
1936-39: Diamond drilling totalling 4,289 feet. Work by Mackey Point Gold Mines Ltd.

References: OBM Vol.7, p.194
OBM Vol.9, p.114, 116
ODM Vol.36, pt.2, p.45
ODM Vol.44, pt.1, p.85; pt.8, p.74-76
Canadian Mines Handbook 1938, p.168.

Minto Mine (Past Producer)

Main Metals: Au, Ag.

Location: West-central part of Township 29, Range 23, approximately 1-1/2 miles south of Wawa Lake and east of Minto Lake. Shafts on claims SSM3132, SSM3134 and SSM3400.
Map Reference: ODM Map 36a, Michipicoten area.

Geology: Metavolcanics, and mafic and felsic intrusives are cut by mafic dikes and auriferous quartz veins.

Economic Features: The "Minto" vein cuts sheared diorite near a quartz porphyry dike. The strike is N20°W, dip 48°E, and average width about 6 feet. Fine gold is associated with pyrite, chalcopyrite and pyrrhotite. The "Jubilee" composite vein occurs in a shear zone up to 200 feet wide along Jubilee Lake. The strike is east of north, the dip is 50°E. The average recovery of gold from ore milled, including 4,889 tons from Cooper Mine in 1938, was 0.20 ounces of gold per ton.

Ownership: Surluga Gold Mines Ltd.

History: Circa 1898-1900: Shaft sunk an inclined depth of 130 feet on claim SSM3134, vertical depth 95 feet. Work by The Wawa Gold Mining Co. of Michipicoten.
1926-30: 1,908 feet of drifting at 85-foot level in the old shaft on claim SSM3134. On SSM3132 a shaft sunk to a vertical depth of 340 feet, levels at 121, 221 and 321 feet on which 567 feet of drifting and 292 feet of crosscutting were done, and 2,533 feet of surface diamond drilling. Shafts sunk by previous operators including one sunk in southeast corner of claim SSM3400 by Great Northern Mining Co. Ltd., were dewatered and sampled. New shaft sunk west of Jubilee Lake on claim SSM3400 at an inclination of 33° to a depth of 546 feet, levels at 185, 285, 405 and 535 feet, with a 123-foot winze inclined 60° connecting the 405- and 535-foot levels. Drifting totalled 3,512 feet and crosscutting 4,887 feet. A 20-ton test mill was installed. Work by Cooper Gold Mines Ltd., a subsidiary of Pioneer Mining Corporation Ltd.
1931-39: Underground development on new Jubilee shaft comprised approximately 600 feet of drifting, 500 feet of crosscutting, 60-foot winze inclined 38° from 535-foot level, and 3 diamond drill holes totalling 213 feet. Surface work comprised 1,035 feet of diamond drilling and the erection of a 75-ton (later 100-ton) cyanide mill. Work by Minto Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1929-42	37,678	1,123	1,140,457	184,600*

(ODM Statistical Files, Minto Gold Mines Ltd. 1930; Cooper Gold Mines Ltd.).
*Including 4,889 tons of ore from Cooper Mine.

References: OBM Vol.10, p.139
ODM Vol.36, pt.1, p.99-100; pt.2, p.34-39
ODM Vol.40, pt.1, p.71
ODM Vol.41, pt.1, p.84
ODM Vol.44, pt.1, p.127-128
ODM Vol.49, pt.1, p.173.

Parkhill Mine (Past Producer)

Main Metals: Au, Ag.

Location: Two miles southeast of Wawa, Township 29, Range 23, southwest part. Claims M301, SSM3109, 3124, 3129, 3493, etc.
Map Reference: ODM Map P.184, Michipicoten area.

Geology: Mafic lavas, a band of agglomerate and porphyrite lavas are the country rocks which have been invaded by granite. The rocks strike northeast and dip steeply northeast. There are three ore zones along the east-west vein system and one ore shoot on the north-south vein system. A new ore zone west of the shaft was located underground on the 9th and deeper levels. The veins which strike east dip about 45°S. Individual veins are quartz lenses up to 125 feet in length and about 2 feet in width. Pyrite, pyrrhotite, chalcopyrite and gold are associated with the quartz.

History: 1900-03: Claim JD1, inclined shaft 208 feet with 63 feet of crosscutting on the 100- and 200-foot levels. Work by the Mariposa Mining Company Ltd.
1929-38: Claim SSM3124, shaft inclined 42°S was sunk to 1,912 feet with 14 levels, the deepest at 1,877 feet by Parkhill Gold Mines Ltd., and Parkhill Gold Mines (1937) Ltd.

Production:

Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
54,301	2,896	1,691,795	125,778

Years of Production: 1904, 1929, 1930-38, 1940, 1942, 1943, 1944.
(ODM Statistical Files, Parkhill Gold Mines Ltd. (1929); Mariposa Gold Mining Co.).

References: OBM Vol.13, pt.1, p.46-47
ODM Vol.40, pt.4, p.39-41
ODM Vol.44, pt.8, p.78-79
ODM Vol.47, pt.1, p.188-189.

S.B. Smith Mine (Past Producer)

Main Metals: Au, Ag.

Location: Three miles south of Wawa, Township 29, Range 23, central part. Claim SSM301.
Map Reference: ODM Map P.184, Michipicoten area.

Geology: To the east of the shaft the Smith vein is within a stock of quartz porphyry and to the west of the shaft is within volcanic rocks which include tuff and agglomerate. The Smith vein strikes N60°E and dips about 50°S. The vein consists of a series of quartz lenses which are up to 4 feet in width and have been exposed on surface for 300 feet.

History: 1934-36: Shaft inclined at 45° sunk to a depth of 289 feet on the incline with levels at 119 and 261 feet, with 430 feet of drifting reported on the first level. During 1935, 6,122 tons were removed by stoping on the first level and 1,534 tons on the second level. Mine operated by S.B. Smith.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1935-36	1,536	75	60,251	9,228

(ODM Statistical Files, S.B. Smith Mine).

References: ODM Vol.44, pt.1, p.140
ODM Vol.44, pt.8, p.79-80.

Stanley Prospect

Main Metals: Au, Ag.

Location: Two and a half miles east of Wawa, Township 29, Range 23. Claims SSM7338, SSM7363, SSM7366.
Map Reference: ODM Map P.184, Michipicoten area.

Geology: The country rocks are mafic volcanics adjacent to the eastern side of a stock of granitic rocks. Most of the surface exploration work was done on the Smith vein which strikes N50°W and dips 35°NE. The Compressor vein is 60 feet west of the Smith vein and generally parallel to it. The Mickelson vein is about 100 feet northwest of the shaft and strikes northeast and dips 40°SE. The veins are up to six feet in width and quartz is accompanied by small amounts of pyrite, pyrrhotite, chalcopyrite, sphalerite and native gold.

History: 1935-38: 1,500 feet trenching; inclined shaft 550 feet in depth, with levels at 123, 256 and 360 feet, and 1,919 feet of lateral work by Stanley Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1936	84	3	2,936	1,963

(ODM Statistical Files, Stanley Gold Mines Ltd.).

References: ODM Vol.43, pt.1, p.98
ODM Vol.44, pt.8, p.76-77
ODM Vol.46, pt.1, p.204
ODM Vol.47, pt.1, p.208.

Surluga Mine (Past Producer)

Main Metals: Au, Ag.

Location: Central part of Township 29, Range 23, extending from southeast shore of Wawa Lake, south along a line joining Mackey Point and Ward Lake and spreading eastwards from this line. Principal working area consists of old "Cora" claims which were recorded circa 1899 as Nos. 26 and 27, subsequently as 2488 and 2489, and at present as SSM59662 and SSM59663. Shaft on SSM59662.
Map Reference: ODM Map 36a, Michipicoten area.

Geology: Mafic metavolcanics and felsic intrusives are cut by an extension of the "Jubilee" vein at Minto Mine. The ore zone is lenticular and gold is associated with tourmaline, ankerite and low quantities of sulphides.

Economic Features: Ore reserves at December 31, 1967 were calculated at 148,040 tons proven at 0.28 ounces of gold per ton; 90,360 tons probable at 0.31 ounces of gold per ton and 2,632,600 tons possible at 0.24 ounces of gold per ton (Canadian Mines Handbook 1969-70, p.342). Drilling by Pango Gold Mines Ltd. indicated ore in the region of the 4th and 5th levels which assayed 0.21 ounces across 12 feet, 0.50 ounces across 2 feet, 0.17 ounces across 3 feet and 0.25 ounces across 1 foot.

Ownership: Surluga Gold Mines Ltd.

History: Some of the diamond drilling by Surluga Gold Mines Ltd. as shown below may have been done in the surrounding area including the former properties of Minto Mine, Cooper Mine, Mackey Point Prospect, etc.
Circa 1899: Two deep pits, 32 feet and 16 feet deep, were sunk. Work by the Johnston Brothers of Sault Ste. Marie.
Between 1899 and 1960 an inclined shaft was sunk to 70 feet.
1927: Three diamond drill holes by either Cora Gold Mines Ltd. or Power and Mines Syndicate of Montreal.
1960-62: Diamond drilling totalling 9,267 feet by Sutherland and Co.
1962-63: Diamond drilling totalling 35,819 feet from surface by Surluga Gold Mines Ltd.
1963-64: Geological mapping and 8,031 feet of surface diamond drilling by Consolidated Mining and Smelting Co. under option.
1964-69: Shaft sunk to 950 feet with levels at 164, 290, 416, 542, 668, 794 and 920 feet on which 4,143 feet of drifting and 3,215 feet of crosscutting were done. Diamond drilling included 17 surface holes totalling 5,650 feet and 141 underground holes totalling 12,175 feet. A 750-ton per day mill was installed. Work by Surluga Gold Mines Ltd.
1969-Present: Extensive exploration work including 1,600 feet of drifting on the 5th level; 1,750 feet of crosscutting on the 4th, 5th and 6th levels and diamond drilling. Work by Pango Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1968	1,687	43	63,717	21,760
1969	1,411	33	53,066	7,744
Total	3,098	76	116,783	29,504

(ODM Statistical Files, Surluga Gold Mines Ltd.).

References: OBM Vol.9, p.114
ODM Vol.36, pt.2, p.45
Canadian Mines Handbook 1963, p.279
Canadian Mines Handbook 1964, p.294
ODM Vol.76, p.64-65
Canadian Mines Handbook 1969-70, p.277, 342
Northern Miner 31, October 23, 1969, p.1079.

TOWNSHIP 30, RANGE 19

Coutu Prospect

Main Metals: Au.

Location: About 27 miles south of Wawa, Township 30, Range 19, northeast part. Claims SSM40556-40563, SSM41860, SSM41871.
Map Reference: ODM Map 2138, Townships 31 and 30, Range 19.

Geology: The Gamitagama Lake complex consists mainly of gabbro and diorite of pre-Keweenawan age. The Coutu fault strikes northeast and dips 60°SE. Quartz monzonite dikes up to 30 feet in width occur in and adjacent to the Coutu fault. The main showing is on claim SSM40560 and a quartz vein up to 8 feet wide is mainly within quartz monzonite and contains native gold without sulphide mineralization. A mineralized shoot within the vein is 200 feet long, 0.5 to 7 feet wide and contains from 0.5 to 1 ounce of gold per ton (ODM G.R.69, p.66-67). At the south showing on claims SSM40562 and SSM41871 a quartz-carbonate vein 400 feet long and 2 to 7 feet wide is located along a contact between gabbro and quartz monzonite. Assays are generally less than 0.05 ounces of gold per ton with the highest assay 0.25 ounces of gold per ton (ODM G.R.69, p.67). The north showing is about 1,000 feet northeast of the main zone and consists of quartz stringers containing trace amounts of gold (ODM G.R.69, p.68).

Ownership: Coutu Gold Mines Ltd.

History: 1955: Gold discovered and claims staked by Wilfred Coutu and Edmond Coutu.
1956-61: 28 drill holes 3,249 feet partly by Coutu Gold Mines Ltd.

References: Mineral Resources Branch, file, Gamitagama Lake
ODM G.R.69, p.65-68.

TOWNSHIP 47

Bankfield Prospect

Main Metals: Au.

Location: Six miles southeast of Lochalsh station on the Canadian Pacific Railway, Township 47, east-central. Showing on SSM12916.
Map Reference: ODM Map 1946-2, Township 47.

Geology: Andesite flows have been intruded by a composite dike. This dike of granodiorite or quartz porphyry contains a fine grained phase which is cut by a later medium grained phase. The dike is from 125 to 155 feet in width and strikes S70°E. Parts of the dike contain quartz veins and stringers with quartz lenses up to 2 feet in width. A little pyrite and sphalerite occur in the veins.

Economic Features: Stringer zones occur in the dike over a length of 1,000 feet. One zone is 285 feet long, about 5 feet wide, and assay values for gold ranged from nil to 2.72 ounces of gold per ton over a width of one foot.

History: 1943: Trenching, and 750 feet of diamond drilling in 22 holes by Bankfield Consolidated Mines Ltd.
1944: Geophysical survey, stripping and diamond drilling by Winabie Gold Mines Ltd.

References: ODM Vol.54, pt.4, p.20-21
Mineral Resources Branch, file, Winabie Gold Mines (Bankfield).

Camex Prospect

Main Metals: Au.

Location: Four miles southeast of Lochalsh station on the Canadian Pacific Railway, Township 47, central part. Claim SSM12594.
Map Reference: ODM Map 1946-2, Township 47.

Geology: Andesitic lavas are cut by dikes of granodiorite. Quartz veins occur in the lavas in the vicinity of the dikes and have been exposed for 800 feet. The vein zone strikes N75°E and the dip is 75°N. Vein material consists of two ages of quartz with small amounts of pyrite, chalcopyrite and very small particles of native gold.

Economic Features: Thirty samples taken over an average width of 28 inches in trenches along a length of 800 feet had a gold content ranging from 0.01 to 24 ounces of gold per ton.

History: 1943: Trenching and sampling by Camex Prospecting Trust.
1946: 5,000 feet of diamond drilling by Lochabie Mines Ltd.

References: ODM Vol.54, pt.4, p.19-20
Canadian Mines Handbook 1946, p.182.

TOWNSHIP 48

Cline Mine (Past Producer)

Main Metals: Au.

Location: Twelve miles east of Goudreau, Township 48, central part. Shafts on claims SSM2171, SSM2185, SSM2186.
Map Reference: ODM Map 49, Goudreau-Lochalsh area.

Geology: Basalt with some bands of rhyolite, tuff and iron formation are the country rocks. A granodiorite stock is the host rock for most of the orebodies. A shear zone strikes east and dips 75°N, and the veins are adjacent to this shear. The veins may be simple or consist of a lode of quartz lenses. The main vein zone is 500 feet in length and is most extensive from surface to the 500-foot level. Quartz is the chief vein mineral with small amounts of chlorite, sericite, carbonates and tourmaline. Sulphides form less than 10 percent of the ore and consist mainly of pyrite with small amounts of pyrrhotite, arsenopyrite, sphalerite, chalcopyrite, galena and molybdenite.

Ownership: Pick Mines Limited.

History: 1936-42: No. 4 shaft 1,196 feet in depth on claim SSM2171 with 12,229 feet of drifts and 6,340 feet of crosscuts; a 200-ton mill erected by Cline Lake Gold Mines Limited.
1965-66: From No. 3 shaft, 115 feet in depth, 478 feet of drifting and 156 feet of crosscutting; and 40 underground holes totalling 2,718 feet and 8 surface holes totalling 2,500 feet were drilled by Pick Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1938-42					
1947-48	63,328	10,598	2,369,053	331,842	64,200

(ODM Statistical Files, Cline Lake Gold Mines Ltd.).

References: ODM Vol.49, pt.3, p.33-41
ODM Vol.52, pt.1, p.90-91
CIM 1948, Jubilee Volume, p.433-435
ODM Vol.75, p.48-49.

Edwards Mine (Past Producer)

Main Metals: Au, Ag.

Location: Nine miles east of Goudreau and adjoins Cline Mine on the west, Township 48, central part. Shaft on claim SSM3559 (SSM60127).
Map Reference: ODM Map 49g, Goudreau-Lochalsh area.

Geology: Apophyses of the granodiorite or quartz porphyry stock extend into claim SSM3559 from the Cline property. Parts of the veins are within porphyry dikes and part within mafic lavas or along dike contacts. No. 1 vein strikes N67° and dips 75°N, and 5 other veins strike east. No. 1 vein is 2-1/2 feet in width and is exposed on surface for 100 feet and other veins range in width from 1/2 to 2-1/2 feet. Small amounts of sulphides are associated with the vein quartz.

History: 1925-26: Pitting and trenching by Hollinger Consolidated Gold Mines Ltd.
1933-34: Shaft inclined at 80° to a depth of 100 feet; 60 feet of crosscutting by Gold Lands Syndicate of Algoma.
1935-37: Shaft deepened to 300 feet; 440 feet of lateral development on the 100-foot level; 50 feet of drifting and 55 feet of crosscutting on the 200-foot level; underground drilling 2,500 feet, stoping on three levels, and a 75-ton mill constructed by Edward Gold Mines Ltd.
1938: 10 surface drill holes with combined length of 2,739 feet were drilled and three holes intersected gold values ranging from 0.34 to 1.07 ounces of gold per ton over widths of up to 17 inches. Work by Edward Consolidated Mines Ltd.
1963-65: Geophysical surveys and 5,100 feet of surface drilling by Shaynee Consolidated Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1937	485	37	16,977	1,573

(ODM Statistical Files, Edwards Gold Mines Ltd.).

References: ODM Vol.43, pt.1, p.71
ODM Vol.44, pt.8, p.12
ODM Vol.46, pt.1, p.131
ODM Vol.49, pt.3, p.41-42
Mineral Resources Branch, file, Shaynee (Edwards).

TOWNSHIP 49

Algoma Summit Mine (Past Producer)

Main Metals: Au, Ag.

Location: Four miles northeast of Goudreau, Township 49, southern part.
Claims SSM2049-2050, etc.
Map Reference: ODM Map 49g, Goudreau-Lochalsh area.

Geology: A granodiorite stock intrudes mafic lavas. Stringers and lenticular quartz veins occur within granodiorite and small amounts of pyrite and chalcopyrite are associated with the quartz. The mineralized zone strikes in an easterly direction and dips about 35°N.

Economic Features: Some of the first ore was mined by an open cut and the balance from underground. An attempt was made to mine large portions of the granodiorite but the grade was found to be too low except in zones where quartz stringers are fairly abundant.

History: 1918-24: Stripping, test pits and 1,100 feet of diamond drilling by J.W. Webb.
1933: Test mill operated by McCarthy-Webb Goudreau Mines Ltd.
1934-38: Shaft inclined at 33° with an inclined length of 413 feet and levels at 176 and 374 feet by Algoma Summit Gold Mines Ltd.
1939: Total lateral working on two levels 5,159 feet. Operated by Magino Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1934-39				
1942-52				
1953	8,776	856	308,334	116,627

(ODM Statistical Files, Algoma Summit, Magino Gold Mines Ltd. (1939).

References: ODM Vol.36, pt.2, p.73-76
ODM Vol.48, pt.1, p.75
ODM Vol.49, pt.1, p.168-169
ODM Vol.49, pt.3, p.42-43.

Kremzar Prospect

Main Metals: Au.

Location: Seventeen miles west of Missanabie, Township 49, southeast part.
Claims SSM3860, SSM3900-3901, SSM3908-3909, etc.
Map Reference: ODM Map 40e, Goudreau gold area.

Geology: Keewatin mafic lavas are intruded by porphyry dikes. The regional strike is N65°E and the dip 65°NW and the veins strike N20°E and dip steeply northwest. Vein quartz is mineralized with pyrite, pyrrhotite and chalcopyrite.

Economic Features:

Location	Name	Length feet	Width feet	Grade ounces
SSM3908	Tent	60	2	0.90
SSM3901	No. 2	140	?	0.45
SSM3951 and 6159	No. 3	150	6	0.277
SSM3904	No. 8	200	20 to 40	low

(Mineral Resources Branch, file, Kremzar and Burwash 1935, p.17).

History: 1930: Trenching and 5 drill holes with a combined length of 3,974 feet on No. 2 zone and the Tent vein by M.J. O'Brien Ltd.
1936: Eight drill holes on No. 1 vein and the Tent vein by P.E. Hopkins and C.F. Cockshutt.
1941: 3,215 feet of surface drilling by Cline Lake Gold Mines Ltd.

Production: In 1940 three ounces of gold valued at $96 were produced. (ODM Statistical Files, Kremzar Gold Mines Ltd.).

References: ODM Vol.40, pt.4, p.26-30
ODM Vol.44, pt.8, p.14-17
ODM Vol.51, pt.1, p.87
Mineral Resources Branch, file, Kremzar.

TOWNSHIP 137

Payton Prospect

Main Metals: Au.

Location: Fifteen miles northeast of Elliot Lake, Township 137, west shore of Whiskey Lake opposite Beer Point. Claim WR94.
Map Reference: ODM Map 2003, Township 137.

Geology: The country rocks are Middle Mississagi argillite and siltstone with minor greywacke beds cut by a Keweenawan diabase and gabbro intrusive. The vein is exposed in a trench for 40 feet and varies in width from 0.5 to 4.5 feet. In the shaft two veins occur at 20 and 26 feet below the surface vein. Small amounts of pyrite, arsenopyrite, chalcopyrite and native gold are associated with the quartz.

Economic Features: The highest assays were $121.20 (6.06 ounces) over a width of 5 inches and $14.80 (0.74 ounces) over a width of 32 inches, but for 6 other samples the values ranged from nil to 0.12 ounces of gold per ton.

History: 1904-06: Stripping and shaft to 25 feet and drift 24 feet on copper-bearing vein by A. Teasdale.
1925: Trench 40 feet long, shaft 30 feet deep and sampling by J.S. Wilson.

References: OBM Vol.22, pt.1, p.153-154
ODM Vol.34, pt.4, p.43-46
ODM G.R.10, p.76-77.

ALGOMA DISTRICT

MINERAL OCCURRENCES

Location	References	Metals	Remarks
Galbraith Tp., NW Lake Ickta, adjacent to Havilah Mine, con. III, lot 12. (Galbraith Township Occurrence)	OBM 1893, Vol.3, pt.1, p.39-40 Kindle, GSC Mem.192, p.21 ODM Map 2108	Au	Diorite and quartzite enclosing a vein
Hawkins Tp., E of Langdon and 1 mile W of the Culbert-Peterson-Dubroy Occurrence. Claim SSM4310 (Taylor Occurrence)	ODM Vol.38, pt.6, p.123-124 ODM Map 38c, Oba area	Au	Migmatite encloses parallel veins striking E10°N and dipping 90°N, which are mineralized with sulphides. Native gold is not visible but can be panned
Lizar Tp., SW part, 1 mile N and 2.2 miles E of the SW corner of the township; claim SSM14693 (Charpentier Occurrence)	ODM 1968, M.P.20, p.9 ODM Map P.476, Hornepayne Sheet	Au Ag	Metavolcanics cut by quartz porphyry dikes and sills contain an auriferous vein, strike N55°E to N60°E over 100 ft. and give erratic assay values. Pyrite-rich wallrock carries little or no gold
Lizar Tp., central part, 4 miles N and 3.8 miles E of SW corner of township; claim SSM9560 (Kalibak Occurrence - North Showing)	ODM 1968, M.P.20, p.12 ODM Map P.476, Hornepayne Sheet	Au	Porphyry-amphibolite contact zone, strike N70°E, intermittently enclosing mineralized quartz, bearing a trace of gold, but one sample assaying $5.20 Au/ton. At least 3 holes were drilled under No. 1 pit
Lizar Tp., SW part, 2.7 miles N and 3.1 miles E of SW corner of township; claim SSM9540 (Kalibak Occurrence - South Showing)	ODM 1968, M.P.20, p.13 ODM Map P.476, Hornepayne Sheet	Au	Mafic metavolcanics contain an auriferous quartz vein, strike N60°E over at least 150 ft. Second showing is located 200 ft. N of above
Lizar Tp., 2 miles N and 1½ miles E of SW part of township. (Vasey, J.E. - Stenabaugh Occurrence)	ODM 1968, M.P.20, p.14-15 ODM Map P.476, Hornepayne Sheet	Au	Metavolcanics and metasediments are cut by a quartz porphyry dike which is intruded by auriferous quartz veins in a shear zone, strike N55°E over 300 ft. Assays in 1937 ranged from $0.40 to $15.60 Au/ton
Meath Tp., southwest portion; 5 showings in belt extending from 300 ft. W to 3,200 ft. E of Dog River (Maisondor Occurrence)	ODM Open File Report 5030 ODM Map P.403	Au	Quartz veins and stringers up to 8 in. wide occur in up to 15 ft. wide zones in dacite and metavolcanics, and contain minor pyrite and sparse, fine, visible gold. Assay results erratic but mostly under 0.1 ozs. Au/ton. Trenching and drilling. Acquired by Winchester Explorations Ltd. in 1964
Nameigos Tp., NE part. (Cominco Occurrence)	ODM 1968, M.P.20, p.16-17 ODM Map P.476, Hornepayne Sheet	Au Ag	Mafic metavolcanics cut by a silicified zone, strike N50°W, dip NE70°-75°, which assayed a trace up to 0.24 ozs. Au/ton. 1935-36: Stripping and trenching
Walls Tp., approx 1½ miles south from a point on the C.N.R., 1 mile west of Neswabin. Claim SSM4687. (Culbert-Peterson-Dubroy Occurrence)	ODM Vol.36, pt.2, p.85-86 ODM Vol.38, pt.6, p.122-123 ODM Map 38c, Oba area	Au	Migmatite encloses a system of parallel veins, strike E12°S, dip 85°N, total mineralized zone is approx. 400 ft. wide. Native gold is visible in some of the veins
Tp. 26, Range 26; claims AC3553 and AC3554 (Tp. 26, R. 26 Occurrence)	ODM Vol.49, pt.3, p.47 ODM Map 49g, Goudreau-Lochalsh area	Au	Felsic metavolcanics intruded by diorite which contains an auriferous vein, strike S65°E and dip 40°N, width 12-26 ins. and visible for length of 75 ft.
Tp. 27, Range 26, Lat 48°16', Long.84°31' NW of Goudreau Station. Claim AC1712 (McMahon Occurrence)	ODM 1927, Vol.36, pt.2, p.71-72 ODM Map 36b	Au	Quartz vein with visible gold
Tp. 28, Range 24, Lat.48°05', Long.84°36' 3 miles from Hawk Junction. (Atnel Occurrence)	Canadian Mines Handbook 1937, p.22 Mineral Resources Branch, file (Armstrong, Atnel, Hubert)	Au	Quartz stringers and veins in shear zone 10 to 20 ft. wide
Tp. 28, Range 26, Lat.48°14', Long.84°34' Claims AC572, AC573 (Banville-Page Occurrence)	ODM 1927, Vol.36, pt.2, p.73 ODM Map 36b	Au	Visible gold, quartz stringers
Tp. 28, Range 26, ½ mile SW of west end of Murphy Lake. Claim AC451 (Brighton Occurrence)	ODM 1927, Vol.36, pt.2, p.69-70 ODM Map 36b	Au	Irregular quartz lenses
Tp. 28, Range 26, NW part. Approx. 1 mile SE of Goudreau village. (Brandt, Fred Occurrence)	ODM Vol.36, pt.2, p.72 ODM Map 36b, Goudreau-Lochalsh area	Au	Mafic metavolcanics cut by several shear zones containing auriferous quartz
Tp. 28, Range 26, approx. ½ mile SW of Murphy Lake. Claim AC442 (Farquhar Occurrence)	ODM Vol.36, pt.2, p.69 ODM Map 36b, Goudreau-Lochalsh area	Au	Near the contact between metavolcanics and felsic intrusives, an auriferous vein up to 3 ft. wide, strikes E; it also encloses irregularly distributed sulphides.

Location	References	Metals	Remarks
Tp. 28, Range 26. Claim AC549 (1446) (Gutcher Occurrence)	ODM Vol.36, pt.2, p.72 ODM Map 36b, Goudreau-Lochalsh area	Au	Felsic porphyry encloses a vein 200 ft. long, from 1-3 ft. wide, strike SE, dip 70°N, bearing gold associated with sulphides
Tp. 28, Range 26, Lat.48°13', Long.84°37' Claim AC495 (Porter-Premier Occurrence)	ODM 1927, Vol.36, pt.2, p.71 ODM Map 36b	Au	Quartz vein 225 ft. stripped; 23 ft. test pit
Tp. 29, Range 22, NE of High Falls. Claims 1498 etc. (Valenti Occurrence)	ODM 1927, Vol.36, pt.2, p.48-49 ODM Map 36a	Au	Assay (several dollars) Au/ton over a width of 96 inches
Tp. 29. Range 23, NW of Gibson Group between Wawa and Hawk Lakes (Andargo Occurrence)	ODM 1927, Vol.36, pt.2, p.45-46 ODM Map 36a	Au	Metavolcanics enclose a few hundred feet of chalcopyrite mineralization
Tp. 29, Range 23, claims SSM4170-4173 (Lake Osu Occurrence)	Canadian Mines Handbook 1967-68, p.191 ODM Assessment File 63-1241 ODM Map 36a, Michipicoten area	Au	Felsic intrusives are cut by 4 quartz veins, only 1 of which was sampled and gave moderate gold values. 1963-64: Geological and geophysical survey performed which included 2,957 ft. of diamond drilling by Lake Osu Mines Ltd.
Tp. 29, Range 23, 7 miles SE of Wawa and 1,200 ft. SE from shaft of Deep Lake Mine (Le Roy Occurrence)	Mineral Resources Branch, file, Le Roy Gold Syndicate ODM Map 36a, Michipicoten area	Au	Fourteen veins ranging from 3 to 30 ft. in width and from $2.40 to $80.00 Au/ton. Three shafts sunk to depths of 40, 45 and 90 ft.
Tp. 29, Range 23, central part, about ½ mile E of Jubilee Lake. Claims SSM3104 and SSM3105-3108 (JD12-15) (Shier Occurrence)	ODM Vol.36, pt.2, p.46 ODM Map 36a, Michipicoten area	Au	Metavolcanics and mafic and felsic intrusives cut by several veins, one said to carry native gold reported near SE corner SSM4616
Tp. 29 Range 23. 2½ miles SE of Wawa. Claim Y330 (Sunrise Occurrence)	GSC Mem.192, p.87 ODM Map P 184, Michipicoten area	Au	Quartz veins within diorite. Inclined shaft 100 ft. deep, vertical shaft sunk 20 ft. by Sunrise Mining Co during 1902-03
Tp. 29, Range 23. Claim K3492 (War Eagle Occurrence)	ODM 1927, Vol.36, pt.2, p.49 ODM Map 36a	Au	Metavolcanics are cut by auriferous veins, one of which assayed approx. 0.25 ozs. Au/ton
Tp. 29, Range 23, eight claims to the east of Mackey Point Prospect (Wawa Gold Fields Occurrence)	ODM Vol.43, pt.1, p.104 ODM Vol.44, pt.1, p.149 and pt.8, p.76 ODM Map 36a, Michipicoten area	Au	1933-34: Shaft inclined 65° to depth of 70 ft., level at 50 ft. (vertical), drifting 410 ft., crosscutting 274 ft. Adit 115 ft. below shaft, collar driven 340 ft. All on Figgus vein, strike N30°W, dip 45°NE, approx. 2 ft. wide
Tp. 29, Range 24 and 25, grounds of Magpie station (Regnery Occurrence)	Mineral Resources Branch, file, Regnery Gold Mines ODM Map P.184, Michipicoten area	Au	Mineralized zone 120 ft. long and 110 ft. wide. Surface samples range from 0.06 to 0.2 ozs. Au/ton. Drilling to 200-ft. depth
Tp. 30, Range 22, northeast portion. Claim 3723 (4620) (Stenabaugh Occurrence)	ODM Vol.36, pt.2, p.46 Mineral Resources Branch, file, Stenabaugh ODM Map 36a, Michipicoten area	Au	Mafic metavolcanics cut by veins striking N85°E. Reported 1.49 ozs. Au/ton over average width of 39 in. for a length of 80 ft. of the main vein. 1927: Surface work by Stenabaugh Bros. 1934-39: About 2,000 ft. of diamond drilling by Milmac Mines Ltd.
Tp. 43, east shore of Sleith Lake (Cordell Occurrence)	Mineral Resources Branch, file, Cordell ODM Map 44c, Lochalsh-Missinaibi area	Au	Metavolcanics enclose a vein 16 ft. wide and over 150 ft. long
Tp. 47, south-central portion. Claim SSM1114 (Emily Occurrence)	ODM Vol.36, pt.2, p.84 ODM Map 36b, Goudreau-Lochalsh area	Au	Vein trending E in mafic metavolcanics adjacent to quartz porphyry. Channel samples assayed up to 2.13 ozs. Au/ton. Shaft 56 ft. sunk by Algoma Steel Corp Ltd.
Tp. 47, Lat 48°19', Long.84°16' near Lochalsh Station (Michael-Webb Occurrence)	ODM 1927, Vol.36, pt.2, p.83-84 ODM Map 36b	Au	Sheared zone in Keewatin 90 ft. wide; lenticular quartz vein 6 ft. wide; diamond drilling done, commercial gold assays
Tp. 47, Lat.48°18', Long.84°11' N of Emily Bay (Missanaibi Gold Shore Occurrence)	ODM 1945, Vol.54, pt.4, p.19 ODM Map 1946-2	Au	Shear zones in rusty andesite; fairly high assays for gold
Tp. 47, Lat.48°20', Long.84°13' SE of Lochalsh Station (White, G.L. Occurrence)	ODM 1935, Vol.44, pt.8, p.38 ODM Map 44c	Au	Quartz vein in diabase, 25 ft. in length
Tp. 48, Lat.48°17', Long.84°16' Claims SSM7923, 7994, 7995 (Archer-Crawford Occurrence)	ODM 1935, Vol.44, pt.8, p.13-14 ODM Map 49g	Au	Quartz-tourmaline-carbonate vein, 8 ft. to 14 ft. wide
Tp. 48, Lat.48°18', Long.84°21' S of Cline property. Claim 2183 (Huronian Belt Occurrence)	ODM 1927, Vol.36, pt.2, p.82-83 ODM Map 49g	Au	Visible gold, mafic schist near the vein

Location	References	Metals	Remarks
Tp. 48, short distance from Cline Lake Mine (Lake Godin Occurrence)	Canadian Mines Handbook 1938, p.154 ODM Map 49g	Au	1937: Surface exploration and trenching done
Tp. 48, west-central part. Claims SSM4200-4203, SSM4205, SSM1814, SSM4198 (McFadden Occurrence)	ODM Vol.40, pt.4, p.30-32 ODM Map 40e, Goudreau gold area	Au	Mafic metavolcanics enclose auriferous quartz stringers over a width of 20 ft. within a brecciated fault zone. Circa 1930 a 21-foot deep shaft dipping 75°W was sunk on claim SSM4200 by the Michael Syndicate
Tp. 48 Lat.48°18', Long.84°19' Claim 7262 etc. (Markes Occurrence)	ODM 1935, Vol.44, pt.8, p.13 ODM Map 49g	Au	Trench across mineralization, width 20 ft. 3-foot best section 0.19 ozs. Au/ton
Tp. 48, Lat.48°17', Long.84°17' Claims SSM7989-91, 9275-83, 8130-31 (Reid Occurrence)	ODM 1940, Vol.49, pt.3, p.47 ODM Map 49g	Au	Visible gold, quartz lenses
Tp. 49, southeast of Herman Lake (Adonis Occurrence)	Mineral Resources Branch, file, Herman Lake	Au	Metavolcanics cut by veins. 1960: Drilling intersected low gold values, the best being 0.36 ozs. Au/ton over 2 ft.
Tp. 49, north of Lovell Lake. Claims SSM4190, SSM4191, SSM4015-16, SSM3936 (Chitty Occurrence)	ODM Vol.40, pt.4, p.30-32 ODM Map 40e, Goudreau gold area	Au	Mafic metavolcanics enclose felsic intrusives and quartz veins up to 8 ft. wide in a breccia zone. Gold assays were low
Tp. 49, northwest side of Lovell Lake. (Claim No. SSM2138 Occurrence)	ODM Vol.40, pt.4, p.35 ODM Map 40e, Goudreau gold area	Au	Felsic intrusive is cut by stringers carrying a little gold. Pitting and trenching by F. Brandt
Tp. 49, adjoining the Algoma Summit Mine on the west (Goodman-Whalen Occurrence)	Mineral Resources Branch, file, Goodman-Whalen (Cobalt Contact) ODM Map 49g, Goudreau-Lochalsh area	Au	Felsic intrusive encloses a vein mineralized by gold and sulphides, and said to assay 0.47-0.67 ozs. Au/ton
Tp. 49, southeast corner. Claim SSM2075 on the north shore of Goudreau Lake (Morrison Occurrence)	ODM Vol.36, pt.2, p.76-77 ODM Map 40e, Goudreau gold area	Au	Felsic metavolcanics enclose two sets of veins, the north-striking are tourmalinized and contain native gold, the less common east-striking have better gold values but are small and spaced too widely to be mined together
Tp. 49, on the SE and SW shore of Maskinonge Lake. Claims SSM3991-3994, SSM4185-4187, SSM4189 (Quartzite Occurrence)	ODM Vol.40, pt.4, p.30-32 ODM Map 40e, Goudreau gold area	Au	Mafic metavolcanics are cut by a porphyry dike, strike E, dip 65°N. Following the dike is an 8- to 10-foot wide sheared zone which, over 2 ft. is heavily mineralized with sulphides. Some gold found by panning the metavolcanics

COCHRANE DISTRICT

BEATTY TOWNSHIP

Aljo Mine (Past Producer)

Main Metals: Au, Ag.

Location: 8 miles northeast of Matheson, Beatty Township, northern part, 4 claims, con. VI NW1/2 of N1/2 lot 6, N1/2 of N1/2 lot 7 and NE1/4 of N1/2 lot 7, No. 2 (South) shaft in NW1/4 of N1/2 lot 7, con. VI. Also adjoining claims in Coulson Township with No. 1 (North) shaft on the boundary between lots 6 and 7, con. I.
Map Reference: ODM 1947-2, Beatty Township.
ODM P.157, Coulson Township.

Geology: Keewatin basalt has been intruded by a plug of gabbro and serpentinite and by porphyry dikes. No. 1 (North) vein strikes southeast and dips steeply north. A quartz vein about 6 inches is associated with quartz stringers to form a zone about 4 feet in width and the zone persists for 1,200 feet. Other veins strike N65E and dip 70NW and vary in width up to 15 inches. Pyrite, pyrrhotite, chalcopyrite, arsenopyrite, sphalerite and small amounts of tellurides and gold are present in the veins.

Economic Features: Ore Reserves

Location	Amount tons	Gold Content ounces
Eastern Mine Area	10,000	0.20
Broken in Stopes	350	0.26
Stock Pile	7,000	0.08

(ODM Vol. 56, pt.7, p.22)

Ownership: Aljo Mines Ltd.

History: 1916: Several pits, prospect shaft to 52 feet, No. 1 (North) shaft to 30 feet. Work by Hattie Gold Mining Company Ltd.
1916: No. 2 (South) shaft to 90 feet by Painkiller Lake Gold Mining Company Ltd.
1922-23: No. 1 (North) shaft sunk to 450 feet and crosscut on the 400-foot level, driven south for 300 feet, work by Hattie Gold Mines.
1923-24: No. 2 (South) shaft deepened to 200 feet and on 160-foot level 1,100 feet of crosscutting by Hattie Gold Mines Ltd.
1937-40: No. 2 (South) shaft deepened to 575 feet and winze from 550 feet to 650 feet, levels at 160, 300, 425, 550 and 650 feet, total drifting 6,396 feet and crosscutting 3,532 feet, 6 small stopes, mill capacity 100 tons per day. Work by Devon Gold Mines Ltd.

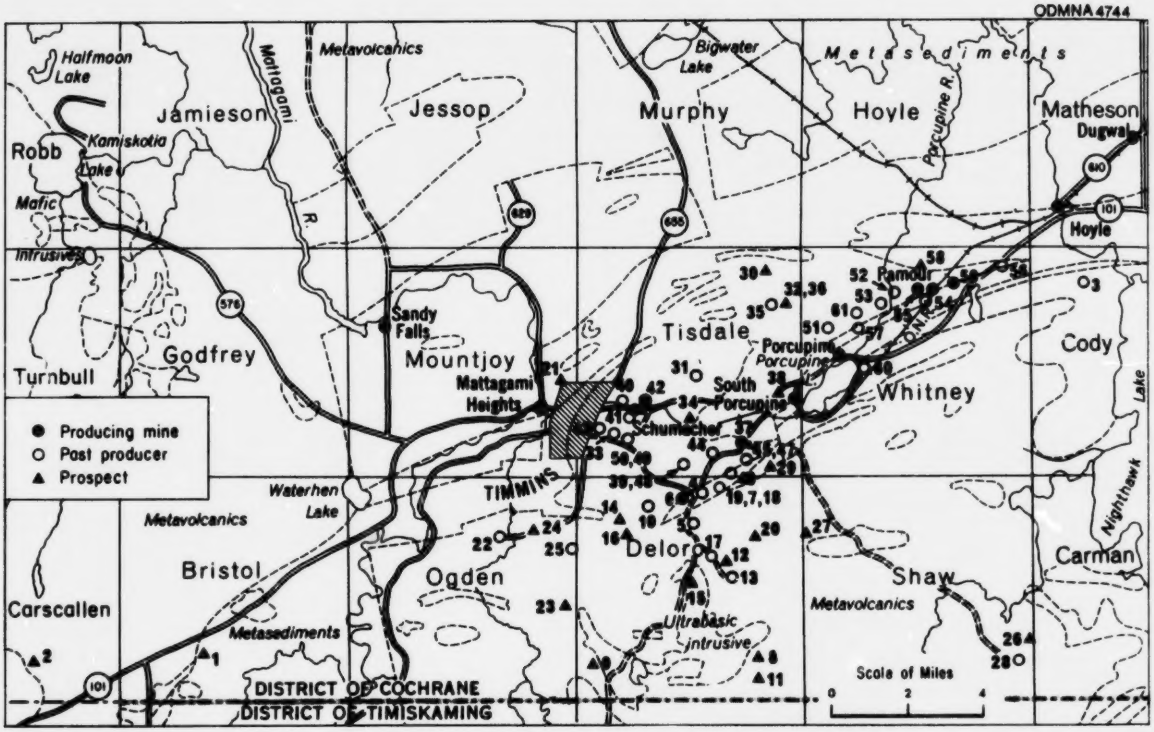

ODMNA 4744
Halfmoon Lake
Robb
Kamiskotia Lake
Mafic Intrusives
Jamieson
Mattagami R.
Metavolcanics
Jessop
Murphy
Bigwater Lake
Metasediments
Hoyle
Porcupine R.
Matheson
Dugwal
610
101
Hoyle
Cody
Godfrey
576
629
655
Sandy Falls
Mountjoy
Tisdale
Turnbull
Mattagami Heights
Porcupine
South Porcupine
Schumacher
Whitney
Porcupine
O.N.R.
Lake
Nighthawk Lake
● Producing mine
○ Past producer
▲ Prospect
Waterhen Lake
Metavolcanics
TIMMINS
Deloro
Bristol
Ogden
Carman
Shaw
Carscallen
Metavolcanics
Metasediments
Ultrabasic intrusive
Scale of Miles
0
2
4
DISTRICT OF COCHRANE
DISTRICT OF TIMISKAMING
101

FIGURE 8 – PORCUPINE MINING AREA

Index to Mines and Prospects

Bristol Township

1 ▲ Orpit Prospect

Carscallen Township

2 ▲ Jowsey Prospect

Cody Township

3 ○ J. Huddlestone Mine

Deloro Township

4 ○ Ankerite Mine
5 ○ Ankerite (March) Mine
6 ● Aunor Mine (Producer)
7 ○ Cincinnati Mine
8 ▲ Concordia Prospect
9 ▲ Dayton Prospect
10 ○ Delnite Mine
11 ▲ Delwin Prospect
12 ▲ Delwood Prospect
13 ○ Faymar Mine
14 ▲ Jasper Prospect
15 ▲ Jodelo Prospect
16 ▲ McBine Porcupine Prospect
17 ○ McLaren-Porcupine Mine
18 ○ Porcupine Pet Mine
19 ○ Porphyry Hill Mine
20 ▲ Powell Prospect

Mountjoy Township

21 ▲ Polaris Prospect

Ogden Township

22 ○ De Santis Mine
23 ▲ Gold Quill Prospect
24 ▲ McEnany Prospect
25 ○ Naybob Mine

26 ▲ Carshaw Prospect
27 ▲ Novell Prospect
28 ○ Tommy Burns Mine

Tisdale Township

29 ▲ Augdome Prospect
30 ▲ Beaumont Prospect
31 ○ Coniaurum Mine
32 ▲ Crown Chartered Prospect
33 ○ Crown Mine
34 ▲ Central Porcupine Prospect
35 ○ Davidson Mine
36 ▲ Dobell Prospect
37 ● Dome Mine (Producer)
38 ▲ Foley-O'Brien Prospect
39 ○ Fuller Mine
40 ○ Gillies Lake Mine
41 ○ Hollinger Mine
42 ● McIntyre Mine (Producer)
43 ○ Moneta Mine
44 ○ Paymaster Mine
45 ○ Preston Mine
46 ○ Preston (Midcamp) Mine
47 ○ Preston (New York) Mine
48 ○ Tisdale Ankerite Mine
49 ▲ Triumph Prospect
50 ○ Vipond Mine

Whitney Township

51 ○ Banner Mine
52 ○ Bonetal Mine
53 ○ Bonwhit Mine
54 ○ Broulan Mine
55 ● Hallnor Mine (Producer)
56 ○ Hoyle Mine
57 ○ Hugh-Pam Mine
58 ▲ North Whitney Prospect
59 ● Pamour Mine (Producer)
60 ○ Porcupine Lake
61 ○ Reef Mine

1944-45: Surface work and diamond drilling by Aljo Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Value dollars	Ore Milled tons	Dividends dollars
1940	42	5	1,632	2,333	Nil

(ODM Statistical Files, Devon Gold Mines Ltd.).

References: OBM 1919, Vol. 28, pt.2, p.56-59
ODM 1923, Vol. 32, pt.6, p.37-38
ODM 1924, Vol. 33, pt.7, p.27-28
ODM 1925, Vol. 34, pt.1, p.85
ODM 1941, Vol. 50, pt.1, p.33-34
ODM 1947, Vol. 56, pt.7, p.20-23.

Argyll Mine (Past Producer)

Main Metals: Au.

Location: 6-1/2 miles northeast of Matheson, Beatty Township. 26 patented claims, shaft on NW1/2 of N1/2 lot 11, con. V.
Map Reference: ODM 1947-2, Beatty Township.

Geology: Keewatin basalts strike northwest and are cut by narrow dikes of quartz porphyry. The Parsons vein strikes N36°E and dips almost vertically. Quartz-calcite veins and stringers form a vein zone about 2 feet wide. Pyrite, arsenopyrite, sphalerite with small amounts of tellurides and gold are present in the vein.

Ownership: Argyll Gold Mines Ltd.

History: 1915: Vein discovered by W.H.G. Parsons.
1917-20: Inclined shaft to 200 feet with levels at 100 and 200 feet with 470 feet of lateral work, mill of 50 tons per day. Work by Hill Gold Mining Company Limited and Premier Gold Mining and Exploration Company Ltd.
1946-47: 20,000 feet of diamond drilling for Argyll Gold Mines Ltd. by Sylvanite Mines Ltd.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1918	30	635	25	Nil

(ODM Statistical Files, Hill Gold Mining Co. Ltd.)

References: OBM 1919, Vol. 28, pt.2, p.59
ODM 1947, Vol. 56, pt.7, p.25-26
Survey of Mines 1950, p.234.

Blue Quartz Prospect

Main Metals: Au, Ag.

Location: 7 miles northeast of Matheson, Beatty Township. Showing and shaft on the south side of Painkiller Lake, N1/2 lots 7 and 8, con. V.
Map Reference: ODM 1947-2, Beatty Township.

Geology: Keewatin basalts strike N70°W and dip steeply north. A feldspar porphyry dike was encountered in the mine workings. The Blue Quartz vein strikes northeast and dips 73°SE and persists from surface to the 200-foot level. It is cut off by faulting about 200 feet northeast of the shaft. The vein material is blue quartz containing pyrite, pyrrhotite, galena, sphalerite, chalcopyrite, tellurides and gold. No. 2 vein is under the lake about 750 feet north of the shaft and strikes east and dips steeply south. The vein is best developed on the 500- and 625-foot levels.

Economic Features:

Vein	Level feet	Length feet	Average width feet	Average grade ounces	Tons per vertical foot tons
Blue-Quartz	200	62	1.58	1.86	8
No. 2	500	187	2.84	1.33	45
No. 2	625	89	5.32	0.51	40

(ODM Vol. 56, pt.7, p.25)

Ownership: Headwater Mines Ltd.

History: 1918: Shaft to 100 feet by Cartwright Goldfields Ltd.
1921-28: Shaft deepened to 514 feet, winze inclined 72°S from 200 to 500 feet, winze from 500 feet to 765 feet, levels at 100-, 200-, 500-, 625- and 750-foot levels, 6,000 feet of drifting and crosscutting, more than 1/2 this work on the 500-foot level by Blue Quartz Gold Mines Ltd.
1933-34: Mill of 25 tons per day installed and 100 tons of ore hoisted by Amalgamated Gold Fields Corporation Limited.
1944-45: 7 surface drill holes 4,850 feet by Amalgamated Gold Fields Corporation Limited.
1957: Geophysical survey and diamond drilling by Headwater Mines Ltd.

Production:

Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
81	33	1,966	500

Years of production: 1923, 1926, 1928, 1934.
(ODM Statistical Files, Amalgamated Gold Fields Corporation Limited (Blue Quartz).

References: OBM 1919, Vol. 28, pt.2, p.58
ODM 1947, Vol. 56, pt.7, p.23-25
Survey of Mines 1959, p.175.

Stewart-Abate Prospect

Main Metals: Au.

Location: 8 miles east of Matheson, Beatty Township. Shaft in the SE1/4 of N1/2 lot 4, con. I, (Claim L13900).
Map Reference: ODM 1947-2, Beatty Township.

Geology: Keewatin quartzite and greywacke strike N45° to 85°W and dip 65° to 80°S. The sediments are cut by stocks of quartz porphyry and intruded by a sill of diorite 200 feet in width. The main vein is along a fault which strikes N70°E and dips 70°N and cuts across the diorite sill and extends into the adjacent sediments. A quartz-carbonate vein up to 18 inches in width persists for 1,000 feet, and is weakly mineralized with pyrite, pyrrhotite, chalcopyrite, molybdenite and gold.

Economic Features: On the 65-foot level for a length of 180 feet, and a width of 4 feet the average gold content was 0.31 ounces per ton. (Survey of Mines 1942-1943, p.112).

History: 1913: Claims staked and surface prospecting by Mr. Abate.
1914: Trenching, test pitting and sampling by The Hudson Bay Mining Company.
1915: Shaft inclined at 73° sunk to 104 feet by Munro Consolidated Mines Ltd.
1934-37: Surface drilling by Stewart-Abate Gold Mines Ltd.
1941: Shaft deepened to 122 feet and on the 65-foot level drifting was carried out for 100 feet west of the shaft and 110 feet east of the shaft; sampling of underground workings by Stewart-Abate Gold Mines Ltd.

References: OBM 1919, Vol. 28, pt.2, p.54
ODM 1942, Vol. 51, pt.1, p.192-193
Survey of Mines 1942-1943, p.112
ODM 1947, Vol. 56, pt.7, p.30-31.

BRISTOL TOWNSHIP

Orpit Prospect

Main Metals: Au.

Location: 12 miles southwest of Timmins, Bristol Township, southwestern part. 10 claims P.4039-4040, P.9392-9393, P.9580, P.9586, P.17773 and P.18390-18392. Shaft and mineralized zone P.4040, shaft P.4039.
Map Reference: ODM 1957-7, Bristol Township.

Geology: Keewatin basalts are overlain by argillite and the strike is east and the dip 60°N. A mineralized zone of quartz-carbonate stringers in carbonatized argillite is present in the sediments at or near the contact with the basalt. The mineralized zone is up to 60 feet in thickness, 500 to 800 feet in length and has been drilled to a depth of 800 feet. Pyrite and arsenopyrite occur in the veinlets and small amounts of visible gold occur in the quartz stringers.

Economic Features: Results of drill holes 32, 41, 42, 45 and 46 indicated a zone 200 feet in length, 50 feet in width, which averaged 0.16 ounces of gold per ton. Indicated reserves were estimated at 300,000 tons between a depth of 400 feet and 800 feet (Survey of Mines 1946, p.152).

History: 1911-16: Shaft 40 feet and another shallow shaft by T. McAuley, J.L. McAuley, J. Brydge.
1938-44: 25,000 feet of drilling by Orpit Mines Ltd.
1945: 16,350 feet of drilling by Piccadilly Porcupine Mines Ltd.

References: ODM 1923, Vol. 32, pt.6, p.29
ODM 1957, Vol. 66, pt.7, p.35-37.

CARSCALLEN TOWNSHIP

Jowsey Prospect

Main Metals: Au.

Location: 15 miles southwest of Timmins, Carscallen Township, southeast part. Claims P.11538, P.11541, etc.
Map Reference: ODM 47d, Keefer-Eldorado area
ODM P.23, Carscallen Township.

Geology: A folded bed of iron formation 17 feet wide in Keewatin basalt strikes N40°E, and consists of quartz and magnetite. Quartz-carbonate veinlets in the iron formation contain wire gold. On the western part of the property gold is present in shear zones in granite. Several ore intersections were reported along strike from the Jowsey vein (Survey of Mines 1947, p.174).

Ownership: Jowsey Denton Gold Mines Ltd.

History: 1926: Surface prospecting, pits, sampling by Sydney Beanland and Frank Hurst.
- : Claims restaked and prospected by David MacKenzie.
1938: Prospecting by Porcupine Quartet Gold Syndicate.
1936-46: Surface prospecting, geological mapping, diamond drilling by Jowsey Denton Gold Mines Ltd.

References: ODM 1926, Vol. 35, pt.6, p.34
ODM 1938, Vol. 47, pt.4, p.16-17
Survey of Mines 1936, p.174
ODM 1938, Vol.47, pt.4, p.14.

CLERGUE TOWNSHIP

Montclerg Prospect

Main Metals: Au.

Location: 12 miles northwest of Matheson, 2,009 acres in Clergue, Taylor Stock and Walker Townships. Drilling in S1/2 lots 1 and 2, con. I, Clergue.
Map Reference: ODM P.308, Clergue Township.

Geology: Keewatin basic lavas trend N70°E on the north side of the Pipestone Fault. The mineralized zone is 4,300 feet in length and from 200 to 400 feet in width. Gold is associated with pyrite and arsenopyrite in a stockwork of quartz stringers. Gold content of the zone is described as "submarginal" (Survey of Mines 1954, p.183).

Ownership: Consolidated Montclerg Mines Ltd.

History: 1938: Showing exposed by a landslide, sampling, some drilling.
1939-42: 45 drill holes 27,783 feet total length mainly by Newmont Mining Corporation of Canada Ltd. and Anglo-Huronian Ltd.
1942: One drill hole 776 feet by Howey Gold Mines Ltd.
1942: Magnetic survey of large area.
1964-65: Several drill holes by L. Torrance.

References: Mineral Resources Branch file, Montclerg.

CODY TOWNSHIP

Goldhawk Prospect

Main Metals: Au.

Location: 12 miles east of South Porcupine and 3 miles south of Highway 101, east side of North Peninsula, Night Hawk Lake, Cody Township. Claims HR2 (T9334), HR3 (T9333) and P12508; Macklem Township claims HR1 (P9168) and P12509 (formerly HR10); Gold Island shaft on Gold Island claim HR1; Bald Island shaft Bald Island claim P12509. HR2 - No. 1 shaft by Hollinger,

HR2 - No. 2 shaft by Goldhawk.
Map Reference: ODM P.356, Cody Township.

Geology: Keewatin basalt strikes N70°E and dips 70°S. Some volcanic rocks are strongly carbonatized and intruded by felsite dikes. Much of the gold is in quartz stringers in the felsite but gold also occurs in a quartz stockwork in carbonatized rocks.

Economic Features: The ore zones strike east and are in the vicinity of Bald Island. One mineralized zone is 800 feet long, 4.3 feet wide with a possible grade of 0.29 ounces per ton. Another zone was 200 feet long, 20 feet wide with a possible grade of 0.15 ounces per ton (Survey of Mines 1946, p.147).

There is an estimated 275,000 tons grading 0.11 ounces of gold per ton to a depth of 225 feet. Subsequent drilling gave 11 intersections averaging 0.172 ounces of gold per ton over a core length of 11.2 feet (Northern Miner March 14, 1948, p.246).

Ownership: A.B. Francis.

History: 1907-08: Prospecting, and Gold Island shaft to 50 feet, small mill erected, work by Victor Manson and Harry Benella.
1919: Bald Island shaft to 50 feet and from the bottom a crosscut 50 feet north optioned by Messrs. Campbell and Fairburn.
1921-22: 20 holes, 3,956 feet drilled under option by Night Hawk Peninsular Mines Ltd.
1930: Property optioned J.G. Cameron and 2 tons of aplitic material was sent to the Mines Branch, Ottawa for testing.
1934-35: Hollinger Consolidated Gold Mines Ltd. optioned the property and sank shaft 180 feet with a station at 170 feet on the mainland southwest of Gold Island.
1940-44 approximately: 23 holes drilled under an option by Lakefield Porcupine Mines Ltd.
1945-50: HR2 - No. 1 shaft dewatered and 13 feet of crosscutting done on the 170-foot level. Goldhawk shaft sunk to 641 feet levels at 225, 350, 475 and 600 feet, drifting 2,438 feet, crosscutting 1,563 feet, combined surface and underground drilling 27,195 feet, milling test of 636 tons at Broulan Reef mill. Work by Goldhawk Porcupine Mines Ltd.
1960-61: 17 holes drilled under an option by McWatters Gold Mines Ltd.

Production:	Year	Gold ounces	Total Value dollars	Ore Milled tons	Dividends dollars
	1947	53	1,862	636	Nil

References: ODM 1931, Vol. 40, pt.3, p.20-21
Survey of Mines 1946, p.147
ODM 1947, Vol. 56, pt.2, p.32
ODM 1948, Vol. 57, pt.2, p.32
ODM Open File Rept. 5037, 1969, p.60-62.

J. Huddlestone Mine (Past Producer)

Main Metals: Au, Ag.

Location: 7-1/2 miles east of South Porcupine, Cody Township, northwest part, con. V, NW1/2 of S1/2 lot 9, W1/2 of N1/2, lot 9, N1/2 lot 10, N1/2 lot 11, and con. VI, SW1/4 N1/2 lot 9, S1/2 of N1/2 lot 10, S1/2 and S1/2 of N1/2 lot 11.
Map Reference: ODM P.545, Cody Township.

Geology: Timiskaming-type greywacke and conglomerate overlie Keewatin basalt, argillite and greywacke. The strike is N75°E and the dip vertical. The zone drilled is the eastern section of the stratigraphic zone that is mineralized at the Hoyle Mine. Short sections are mineralized with pyrite, pyrrhotite and sphalerite and the highest assays reported are 0.2 ounces of gold per ton.

Ownership: Associated Porcupine Mines Ltd.

History: 1923-25: J. Huddlestone and P. Cline are believed to have produced some gold from the eastern part of the claim group.
1944: Geological and magnetic surveys, 7 drill holes 5,561 feet by Paymaster Consolidated Mines Ltd.

Production: The following production is presumed to have come from this property part of which is owned by J. Huddlestone:

Year	Gold ounces	Silver ounces	Total Value dollars	Reference
1923	138	14	2,756	ODM Vol. 33, pt.1, p.5
1925	272	32	5,651	ODM Vol. 35, pt.1, p.7

Note: 1925 production is grouped as miscellaneous and is the combined total production from the Champion mine, Grace mine and Huddlestone mine (Cody Township).

References: ODM Timmins, file T228
ODM Open File Rept. 5037, 1969, p.84-85.

Porcupine Peninsular Mine (Past Producer)

Main Metals: Au, Ag.

Location: 11 miles east of South Porcupine and 3-1/2 miles south of Highway 101, North Peninsula, Night Hawk Lake, Cody Township. 18 claims, shaft on claim HR919 (P9878).
Map Reference: ODM P.545, Cody Township.

Geology: Keewatin basalts are present in the upper part of the mine and in the deeper levels interbedded basalt and tuffaceous, felsic rocks. A porphyry or syenite plug 430 feet long and 210 feet wide forms the centre of the ore zone and the rocks adjacent to the plug are strongly carbonatized. The orebodies are carbonatized brecciated zones mineralized with pyrite and arsenopyrite and cut by irregular quartz stringers containing native gold. On the 425-foot level the ore zone is of irregular shape 330 feet long and 40 to 100 feet wide.

Economic Features: Diamond drilling and resampling of the mine during 1934 and 1935 indicated approximately 1,480,000 tons having an average grade of 0.123 ounces of gold per ton above the 625-foot level (Struct. Geol. Canadian Ore Deposits, p.566).

Ownership: Hydra Explorations Ltd.

History: 1909: Gold discovered on the property held by Night Hawk Lake Mining Company Ltd.
1917: Shaft to 90 feet with 380 feet of lateral workings by The Night Hawk Lake Mining Company Ltd.
1921: Shaft deepened to 190 feet, level at 180 feet; work by Callinan-McKay Exploration Company under an option from Porcupine Peninsular Gold Mines Ltd.
1922-27: Shaft deepened to 440 feet, winze from the 425-foot level to 625 feet, drifting 5,602 feet, crosscutting 3,856 feet, underground drilling 4,545 feet, mill of 200 tons per day capacity. Work by Night Hawk Peninsular Mines Ltd.
1933-34: 30,000 feet of drilling by Anglo-Huronian Ltd. under option agreement with Porcupine Peninsular Mines Ltd.
1940, 1944: A small amount of gold recovered from previously mined ore, work by Porcupine Peninsular Gold Mines Ltd.
1945-48: No. 2 winze from the 425-foot level to 1,025 feet with levels at 525, 625, 750, 875 and 1,000 feet; 2,457 feet of drifting, 256 feet of crosscutting, underground drilling 62 holes, 20,254 feet; work by Porcupine Peninsular Gold Mines Ltd.

Production:

Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
27,354	5,746	580,462	99,688	Nil

Years of Production: 1924-1927, 1940, 1944.
(ODM Statistical Files, Night Hawk Peninsular Mines Ltd.)

References: ODM 1923, Vol. 32, pt.6, p.61
ODM 1924, Vol. 33, pt.3, p.31-33
ODM 1925, Vol. 34, pt.1, p.115-116
ODM 1946, Vol. 55, pt.2, p.68
Struct. Geol. Canadian Ore Deposits, CIMM 1948, Jubilee Vol., p.565-569
ODM 1949, Vol. 58, pt.2, p.67
ODM Open File Rept. 5037, 1969, p.65-68.

DELORO TOWNSHIP

Ankerite Mine (Past Producer)

Main Metals: Au, Ag.

Location: 3-1/2 miles southeast of Timmins, Deloro Township, north-central part, 34 claims and fractions. Buffalo Ankerite No. 5 shaft is on claim ME61 (TRS1566).
Map Reference: ODM P.342, Deloro Township.

Geology: Keewatin basalts have been intruded by a sill and pluton of serpentinite and lenticular bodies of porphyry. Parts of the basalt have been strongly carbonatized. The south limb of the Ankerite Syncline strikes east and dips 70°N and the other limb strikes N50°W and dips 70°SW. Orebodies occur mainly in the pillowed and uniform basalts with a small amount in the porphyry and are generally concordant or make small angles with the bedding. Veins are very persistent and up to 30 feet in width and consist of 65 percent tourmaline, 15 percent quartz, 13 percent carbonate and 7 percent pyrite. Pyritized zones in bleached, massive, basalt also form orebodies.

Economic Features: Mining operations were discontinued February 1953 because of the exhaustion of ore reserves (ODM 1954, Vol. 63, pt.2, p.12).

Ownership: Romfield Building Corporation Ltd.

History: 1911: Shaft to 50 feet and shaft to 120 feet by Dobie Mines Ltd.
1916-21: Surface exploration, shafts to 350 feet, 130 feet and 3 shafts to 50 feet; work by Coniagas Mines Ltd. under an option from the owners, Anchorite Mining Company Ltd.
1922: Mine workings resampled by United States Refining and Smelting Company under an option from the owners, North American Gold Corporation.
1922-24: Under an option agreement underground development resumed by Porcupine Goldfields Development and Finance Company Ltd. Lateral work on 200- and 300-foot levels, 3,438 feet; surface drilling 17 holes 7,739 feet, underground drilling 21 holes 4,630 feet.
1925-29: Ankerite Gold Mines Limited operated the mine and a mill of 250 tons per day. Total development on the property: shafts 1,302 feet, lateral work 12,696 feet.
1931: Lateral work 1,254 feet, drilling 2,421 feet, and mill operated by Ankerite Gold Mines Syndicate.
1932: Development, mining and milling continued by Buffalo Ankerite Gold Mines Ltd.
1935-53: The adjoining March (Marbuan) Mine was taken over and the two mines operated as one property by Buffalo Ankerite Gold Mines Ltd. Ankerite No. 1 shaft 367 feet, Ankerite No. 2 shaft 1,200 feet, Ankerite No. 5 (main) shaft 3,996 feet, No. 8 (Imperial) shaft 109 feet; 27 levels with the deepest at 3,750 feet, drifting 63,000 feet approximately, crosscutting 47,000 feet approximately, mill capacity 400 tons per day.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1926-53	953,885	79,751	34,029,253	4,951,862	2,763,009

References: OBM 1918, Vol. 27, pt.1, p.106
ODM 1925, Vol. 34, pt.1, p.86-87
ODM 1930, Vol. 39, pt.1, p.81-82
ODM 1933, Vol. 42, pt.1, p.64
ODM 1936, Vol. 45, pt.1, p.85-88
Struct. Geol. Canadian Ore Deposits, CIMM 1948, Jubilee Vol., p.515-519
ODM 1953, Vol. 62, pt.2, p.11-13
Mineral Resources Branch File, Ankerite.

Ankerite Mine (March) (Past Producer)

Main Metals: Au, Ag.

Location: 3-1/2 miles southeast of Timmins, Deloro Township, north-central part. March No. 1 shaft on claim HR823 (P7955), March No. 3 shaft on claim HR833 (P8276).
Map Reference: ODM 47a, Porcupine area.

Geology: Keewatin basalt, rhyolite and sediments strike northeast and contain sills of serpentinite. March No. 1 shaft is in the rocks south of the Destor-Porcupine Fault and March No. 3 shaft is north of this fault and along strike from the Aunor Mine. No description of the rocks or orebodies is available.

Economic Features: Mining operations stopped in February 1953 because of the exhaustion of ore reserves (ODM 1954, Vol. 63, pt.2, p.12).

Ownership: Romfield Building Corporation Ltd.

History: - : Claim HR833 (P8276) two shafts each 50 feet deep by Maidens Macdonald.
1916-17: Claim HR833 vertical shaft deepened to 107 feet and shaft inclined 65°, deepened to 100 feet by La Rose Mines Limited under an option from Coniagas Mines Ltd.
1921-25: March No. 1 shaft claim HR823 (P7955) was sunk 800 feet with levels at 100 and 321 feet, lateral work 1,128 feet, underground drilling 4 holes 1,080 feet, surface drilling 2 holes 2,260 feet; work by March Gold Mines Ltd.
1917-26: Claim HR833 March No. 2 inclined shaft deepened to 190 feet, March No. 3 shaft deepened to 330 feet, another shaft to 115 feet by Porcupine Goldfields Development and Finance Company and March Gold Mines Ltd.
1926-32: Mill of 150 tons per day in operation; March No. 3 shaft deepened to 425 feet, South Winze (No. 4) from 425 to 675 feet, levels 170, 200, 300, 425, 550 and 675 feet; work by March Gold Mines Ltd.

1933-34: Mill operated, March South Winze deepened to 1,050 feet, levels at 800, 925 and 1,050 feet; work by Marbuan Gold Mines Ltd.
1935-53: Property consolidated with Buffalo Ankerite Gold Mines Limited. No. 6 Winze extends from 1,050 to 2,020 feet with levels at 1,250, 1,400, 1,550, 1,700, 1,850 and 2,000 feet. The production shaft for both mines was Buffalo Ankerite No. 5 shaft with the mines connected by haulage drives on the 1,050- and 2,000-foot levels.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1926-35	61,039	5,400	1,454,663	317,769	Nil
1936-53	Production included with Ankerite Mine.				

(ODM Statistical Files, March (Marbuan Gold Mines Ltd.).

References: ODM 1923, Vol. 32, pt.6, p.57
ODM 1924, Vol. 33, pt.2, p.82
ODM 1924, Vol. 33, pt.7, p.52-53
ODM 1936, Vol. 45, pt.1, p.87-88
ODM 1954, Vol. 63, pt.2, p.11-13
Mineral Resources Branch File, Ankerite.

Aunor Mine (Producer)

Main Metals: Au.

Location: Three and a half miles southeast of Timmins, Deloro Township, northwest part. HR899 (TRP917), HR909 (TRS1015), HR1246 (TRS787), HR1247 (TRS789), HR1248, TRS820 (HS851), TRS821 (HS850), TRS828, TRS829, TRS830 and TRS831.
Map Reference: ODM 47a, Porcupine area.

Geology: The ore zone is a band of pillow lava enclosed in talc-chlorite schist (serpentinite). Tabular porphyry bodies are conformable with the associated rocks. The strike is N80°E and the dip 50° to 80°N. The ore zone is 2,400 feet in length and 100 feet in width with the top of the zone 500 feet below surface. Quartz forms about 50 percent of the vein material with associated carbonate, tourmaline and scheelite and very small amounts of pyrite and chalcopyrite. Individual veins are about 3-1/2 feet wide but closely spaced veins and stringers form zones 50 to 75 feet in width.

Economic Features: Ore reserves January 1, 1969 were 865,000 tons averaging 0.32 ounces of gold per ton without allowance for dilution (ODM Ann. Rept. 1968, Vol. 78, p.5).

Ownership: Aunor Gold Mines Limited which is controlled by Noranda Mines Ltd.

History: 1909: 4 claims staked by J.A. Mitchell and W.S. Mitchell.
1910: The Porcupine Consolidated Mining Company did additional surface work to bring the claims to patent.

1936-38: Augite Porcupine Mines Ltd. took over these claims and two claims from International Silver Mines Ltd. Shaft 1,026 feet, levels at 250, 500, 625, 750, 873 and 1,000 feet. Crosscutting 580 feet, known surface drilling 2,677 feet and underground drilling 989 feet. Joseph Leniham staked 4 claims which were brought to patent by Porcupine North Star Gold Mines Ltd., and acquired by Noranda Mines Ltd. 1939: Aunor Gold Mines Ltd. obtained the two claim groups and has expanded the group to 11 claims. Aunor shaft to 3,082 feet deepest level 2,900 feet. Delnite No. 3 subshaft from 2,888 feet, level to 5,395 feet below surface and has 18 levels. Total development to December 1968, drifting 78,866 feet, crosscutting 14,270 feet. In 1964 two shafts purchased from Delnite Mines Ltd. Development footage by Aunor on the Delnite property to December 1968 was 3,590 feet of drifting and 1,051 feet of crosscutting. Mill capacity was increased to 760 tons per day in 1963.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1940-68	1,963,140	147,282	71,442,186	5,886,228

References: Struct. Geol. Canadian Ore Deposits, CIMM 1948, Jubilee Vol., p.507-515
ODM 1939, Vol. 48, pt.1, p.76-77
ODM Ann. Rept. 1968, Vol. 78, p.4-6.

Cincinnati Mine (Past Producer)

Main Metals: Au, Ag.

Location: 4 miles southeast of Timmins, Deloro Township, northeast part. Claim HR826 (TRS766).
Map Reference: ODM P.342, Deloro Township.

Geology: The claim is underlain by a large porphyry body. Surface workings explored quartz veins in porphyry and surface drilling adjacent to the old workings obtained numerous intersections of ore grade in a porphyry beneath the Preston West porphyry (ODM 1947, Vol. 56, pt.2, p.78). On the 1,050-foot level two small shoots of medium grade were located (Survey of Mines 1953, p.179).

Ownership: Cincinnati-Porcupine Mines Ltd.

History: 1914: An inclined shaft was sunk 50 feet and a small mill operated by Preston East Dome Mines Ltd.
1920-24: Shaft 100 feet, inclined shaft deepened to 228 feet, lateral work on the 100-foot level 100 feet, and on the 200-foot level 125 feet, milling in progress 1922, 1923, 1924 by Clifton Porcupine Mines Ltd.
1946-54: Surface drilling, 1,050-foot level from Preston East Dome extended 300 feet south and 850 feet southwest; 3,846-foot Preston level

driven 1,093 feet, 4,879 feet of underground drilling by Preston East Dome for Cincinnati-Porcupine Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends
	1914, 1922-24	736	79	30,575	3,200	Nil

(ODM Statistical Files, Preston (Clifton Porcupine).

References: OBM 1912, Vol. 21, pt.1, p.154
ODM 1921, Vol. 30, pt.1, p.90
ODM 1923, Vol. 32, pt.6, p.48
ODM 1924, Vol. 33, pt.7, p.42
ODM 1950, Vol. 59, pt.2, p.68
Survey of Mines 1953, p.179
ODM 1955, Vol. 64, pt.2, p.79.

Clucas Booker Occurrence

Main Metals: Au.

Location: Four miles southeast of Timmins, Deloro Township, northwest part.
Claims HR844 (P8277), HR845 (P8278).
Map Reference: ODM P.342, Deloro Township.

Geology: The property is on the north side of the Destor-Porcupine Fault and is underlain by pillowed and uniform Keewatin basalt. Adjacent to the fault the basalts have been strongly carbonatized.
"A narrow dike of porphyry from two to twelve feet in width intrudes a rusty-weathering schist. The porphyry strikes N80°E and dips N80°. Visible gold has been found at a number of points in the schist near the contact with the porphyry. Numerous stringers of replacement quartz, striking with the schist, occur along the dike, being exposed by a series of pits and trenches. The schist carries finely disseminated iron pyrites and a little galena, and also contains much ankerite." (ODM 1924, Vol. 33, pt.2, p.81).

Economic Features: "A surface map of this property indicates that the showings were extensively channel-sampled, the best assay yielding 0.28 ounces of gold per ton over a width of 4 feet." (ODM 1967, Open File Rept. 5012, p.92).

Ownership: Clucas Booker Gold Mining Company Ltd.

History: 1923: Trenches and pits excavated.
1936: Additional surface work and sampling by Clucas Booker Gold Mining Co. Ltd.

References: ODM 1924, Vol. 33, pt.2, p.81
ODM 1967, Open File Rept. 5012, p.91-92.

Concordia Prospect

Main Metals: Au, Ag.

Location: 8 miles southeast of Timmins, Deloro Township, southeast part.
Claims P10800, P11076, P11085. Shaft P10800.
Map Reference: ODM P.342, Deloro Township.

Geology: Keewatin mafic lavas strike northeast and dip 60°-75°NW. Parts of the lavas contain pillows and some parts are chloritized and carbonatized. A diabase dike from 100 to 500 feet wide crosses the property in a northwesterly direction.
In the Shaft zone a narrow quartz vein strikes north and contains pyrite, chalcopyrite and native gold. Drilling has explored this zone for a strike length of 1,100 feet and a depth of 800 feet. The Dynamite zone is on claim P11076 about 1,500 feet east of the shaft. The zone strikes north and consists of quartz stringers in altered volcanic rocks.

Economic Features: Diamond drilling is reported to have indicated the following mineralization in the Dynamite zone:

Length feet	Width feet	Grade gold per ton
450	7.5	0.18 oz.
300	10	0.26 oz.

(Mineral Resources Branch File, Delcore Porcupine (Jones-Porter)

Drilling in 1944-45 did not confirm these estimates.

Ownership: Delcore Porcupine Mines Ltd.

History: 1925: Gold discovered and surface work on claim P10800 by John Jones.
1926: Small open pit, 11 tons sent for testing to Temiskaming Testing Laboratories at Cobalt by Jones-Porter Mines Ltd.
1928: Shaft to 138 feet by Jones-Porter Mines Ltd.
1935: On 125-foot level 178 feet of drifting and 56 feet of crosscutting. Surface drilling 8 holes, underground drilling 10 holes, total length 2,400 feet. A mill of 5 to 10 tons capacity per day was installed by Concordia Gold Mining Company Ltd.
1941-42: Extensive surface drilling on the Shaft and Dynamite zones by Accordia Porcupine Gold Mines Ltd.
1944-45: Deeper drilling on the central part of the Dynamite zone by Delcore Porcupine Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1935	16	14	580	230

(ODM Statistical Files, Concordia (Jones-Porter).

References: ODM 1928, Vol. 37, pt.1, p.119-120
ODM 1929, Vol. 38, pt.1, p.122
ODM 1936, Vol. 45, pt.1, p.93-94
Survey of Mines 1946, p.143
ODM 1967, Open File Rept. 5012, p.92-93
Mineral Resources Branch File, Delcore Porcupine (Jones-Porter).

Dayton Prospect

Main Metals: Au.

Location: 5-1/2 miles south of Timmins, Deloro Township, southwest part.
40 claims, main drilling on claims P11479, P9757, P11478, P9756 (HR1077).
Map Reference: ODM P.342, Deloro Township.

Geology: Keewatin basalts with associated iron formation are intruded by a pluton of mafic and ultramafic rocks. The iron formation strikes N65°W is over 3,000 feet in length and consists of brecciated chert which locally contains zones of massive pyrite and pyrrhotite.

Economic Features: Mineralization is present in the iron formation for a length of 1,800 feet, a width from 7 to 20 feet and has been drilled to a depth of 350 feet. Gold values across mineable widths range from $3 to $6 (0.08 to 0.17 ounces) per ton. (Survey of Mines 1941-42, p.114).

Ownership: Dayton Porcupine Mines Ltd.

History: Surface work by Ostrosser Deloro Mines Ltd.
1937-40: Trenching and 14,700 feet of diamond drilling by Dayton Porcupine Mines Ltd.

References: Survey of Mines 1941-42, p.114
Canadian Mines Handbook 1941, p.49
ODM 1967, Open File Rept. 5012, p.92
Mineral Resources Branch File, Dayton Porcupine.

Delnite Mine (Past Producer)

Main Metals: Au, Ag.

Location: 3 miles southeast of Timmins, Deloro Township, northwest part.
Claims P7969, P7970, HR941 (TRS1025), HR944 (P7341), TRS823, HR1001 (TRS824), HR1002 (TRS825).
Map Reference: ODM P.342, Deloro Township.

Geology: Two bands of carbonatized Keewatin basalt are enclosed in serpentinized ultramafic rocks and cut by dikes of quartz porphyry. The basalt bands are from 150 to 600 feet thick and the sequence strikes

N80°E and dips 60°N. The veins strike nearly parallel to the strike of the host rocks and dip at the same angle or more steeply. Zones of carbonatized basalt contain intersecting sets of quartz-carbonate-tourmaline veins and some longitudinal veins. Ore shoots developed near surface were about 200 feet in length and 5 feet wide.

Economic Features: Possible ore reserves

Tons	Gold Content ounces	Remarks
5,735	0.263	Could not be mined at an economic rate.
109,032	0.239	Scattered blocks in the backs of stopes and drifts, and sills.

(ODM 1964, Ann. Rept., Vol. 74, p.24).

Ownership: Delnite Mines Ltd. plans to surrender its charter.

History: - : Claims HR1001 and HR1002 staked and surface work by J.E. McMahon.
1931-32: Shaft sunk 145 feet and 610 feet of lateral work on the 125-foot level by La Roche Mines Ltd.
1933: Surface and underground sampling under an option held by Noranda Mines Ltd.
1934-64: Delnite Mines Ltd. No. 1 shaft 391 feet. No. 2 shaft 3,030 feet, No. 3 shaft from 2,888 feet to 5,395 feet, drifting 93,046 feet, crosscutting 47,048 feet.
1964: Delnite No. 2 and No. 3 shafts sold to Aunor Gold Mines Ltd. See Aunor Mine for further development.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1937-64	920,404	73,423	33,052,567	3,847,364	1,578,746

References: ODM 1932, Vol. 41, pt.1, p.75-76
ODM 1935, Vol. 44, pt.1, p.87-88
Struct. Geol. Canadian Ore Deposits, CIMM 1948, Jubilee Vol., p.504-507.
ODM Ann. Rept. 1964, Vol. 74, p.22-24.

Delwin Prospect

Main Metals: Au.

Location: 9 miles southeast of Timmins, Deloro Township, southeast part. Formerly held 15 claims now cancelled; shaft on claim P20809.
Map Reference: ODM P.342, Deloro Township.

Geology: Chloritized and carbonatized Keewatin basalt has been intruded by feldspar porphyry dikes. Two gold-bearing zones strike approximately

N80°E and dip steeply north. These zones contain porphyry dikes and quartz stringers in altered and pyritized basalt.

History: 1936: Shaft sunk to 135 feet by Deloro-Wright Syndicate.
1937: Crosscut on 125-foot level driven 55 feet; 8 surface drill holes 4,100 feet on the same zone by Delwin Mines Ltd.

References: ODM 1937, Vol. 46, pt.1, p.124
ODM 1938, Vol. 47, pt.11, p.114-115
ODM 1967, Open File Rept. 5012, p.104
Mineral Resources Branch File, Gold-Delwin.

Delwood Prospect

Main Metals: Au.

Location: 5 miles southeast of Timmins, Deloro Township, northeast part.
Formerly held claims TRP993-1/2, P7051, P7532, P7952, P7953.
Map Reference: ODM 47a, Porcupine area.

Geology: A carbonatized zone in Keewatin basalt strikes N80°W and from outcrops is known to persist for 1,500 feet. The carbonatized zone is up to 150 feet in width and in places it contains quartz stringers, some pyrite and a low content of gold. Three lenticular pods of pyritized iron formation are erratically mineralized with gold.
Diamond drilling indicated a zone 26 feet wide containing gold values over a length of 800 feet with some ore-grade sections (Mineral Resources Branch File, Delwood Porcupine).

History: 1936-39: 13,500 feet of drilling by Delwood Porcupine Gold Mines Ltd.
1944: Additional drilling to check previous results by Delwood Porcupine Gold Mines Ltd.

References: Survey of Mines 1941, p.114
ODM 1967, Open File Rept. 5012, p.104
Mineral Resources Branch File, Gold - Delwood Porcupine.

Faymar Mine (Past Producer)

Main Metals: Au, Ag.

Location: 5 miles southwest of South Porcupine, Deloro Township central.
Claims HR1167 (TRP1159), HR1168 (TRP1103), HR1169 (TRP1102), HR1170 (TRP1119) etc. Shaft on claim HR1169.
Map Reference: ODM P.342, Deloro Township.

Geology: Keewatin basalts with uniform and pillowed phases are cut by a porphyry dike 60 feet wide. A quartz vein 1 to 8 feet wide and 1,200 feet long is adjacent and parallel to the porphyry dike. The vein strikes N60°E and dips 50° to 65°S. The vein and adjacent wall rock is mineralized with pyrite and gold. The Bowman Mine which produced a small quantity of chrysolite asbestos from 1923 to 1926 is on the western part of the property.

Economic Features: Produced from March 28, 1940 to April 10, 1942 when known ore exhausted. Ore not found at depth. (Survey of Mines 1944, p.99).

Ownership: The Nakhodas Mining Company Limited.

History: 1935: Surface work by Mann Consolidated Silver Mines Ltd.
1938-42: No. 1 shaft to 677 feet, No. 2 inclined shaft 67°S from 600-foot level to 1,110 feet, levels at 225, 350, 475, 600 and 1,050 feet, total drifting 4,840 feet, total crosscutting 2,882 feet. Surface drilling 22 holes, 6,307 feet; underground drilling 62 holes, 11,498 feet; mill capacity 200-250 tons per day. Work by Faymar.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1940-42	21,851	13,531	853,292	119,181

References: ODM 1939, Vol. 48, pt.1, p.111
ODM 1943, Vol. 52, pt.1, p.103-104
ODM 1967, Open File Report 5012, p.98-100.

Jasper Prospect

Main Metals: Au.

Location: 3-1/2 miles south of Timmins, Deloro Township, northwest part.
Claims TRP687, TRP688, P8637 (P18220), P8636 (P18219), TRS886 (HR1132) and TRS1029 (HR940).
Map Reference: ODM P.342, Deloro Township.

Geology: The property is underlain by Keewatin basalt, rhyolite and argillite which strike east. The best mineralization intersected in drilling was 0.36 ounces of gold over a core length of 2 feet (ODM 1967, Open File Rept. 5012, p.96-97).

History: 1936: 4 drill holes 2,492 feet.
- : 4 drill holes by Skynner Lake Gold Mines Ltd.
1940-46: 7 drill holes by Jasper Porcupine Mines Ltd.
Total drilling to 1946 was 21,529 feet.

References: ODM 1967, Open File Rept. 5012, p.96-97.

Jodelo Prospect

Main Metals: Au.

Location: 5 miles southeast of Timmins, Deloro Township, central part.
Claims P8115, P8125, P8126, shaft on claim P8125.
Map Reference: ODM 47a, Porcupine area.

Geology: Keewatin basalts have been intruded by a plug of serpentinite with the intrusive contact striking in a northwesterly direction.

Economic Features: A zone of quartz strinters in carbonatized rocks was 5 to 14 feet wide and was traced by drilling for 600 feet. Erratic gold values were present in this zone (Mineral Resources Branch File, Jodelo (Porcupine Triumph).

History: 1936-37: Surface exploration, 3,000 feet of drilling, shaft inclined at 78° to 100 feet, shaft to 25 feet, work by Porcupine Triumph Gold Mines Ltd.
1938-41: Inclined shaft deepened to 350 feet, 272 feet of drifting on the 100-foot level, 2 surface drill holes 1,000 feet, 2 underground drill holes 100 feet, work by Jodelo Gold Mines Ltd.

References: ODM 1937, Vol. 46, pt.1, p.193
ODM 1938, Vol. 47, pt.1, p.195
ODM 1940, Vol. 49, pt.1, p.137
ODM 1941, Vol. 50, pt.1, p.59.

McBine Porcupine Prospect

Main Metals: Au.

Location: 3 miles south of Timmins, Deloro Township, northwest part.
6 claims ME41 (TRP354-1/2), ME42 (TRS1032), HR800 (TRS844), HR801 (TRS845), HR802. Shaft on claim ME41.
Map Reference:

Geology: Keewatin pillowed and uniform basalts strike east, and a zone of serpentinite conforms with the bedding. Lenses of quartz with pyrite in the basalt adjacent to the veins are present in two zones between the boundary of ME41 and HR800. These zones strike east, dip steeply north and are 1,000 feet long and from 20 to 60 feet in width on surface. Individual quartz lenses contain up to 0.30 ounces of gold per ton. Two assays obtained underground over a width of 53 inches were $9.80 [0.28 oz.] and $11.75 [0.33 oz.] of gold per ton (Mineral Resources Branch File, Gold - McBine Porcupine).

History: 1917: Shaft sunk to 125 feet probably at this time by Porcupine Crown Mines Ltd. 7 drill holes shown on the property plan.

References: ODM 1967, Open File Rept. 5012, p.97
Mineral Resources Branch File, Gold - McBine Porcupine.

McLaren-Porcupine Mine (Past Producer)

Main Metals: Au, Ag.

Location: 5 miles southeast of Timmins, Deloro Township, central part.
Claims HR1080 (P7184), HR1081 (P7185), HR1082 (P7186), HR1084 (P8049), HR828 (P8404), HR1114 (P8652, open pit HR1080.
Map Reference: ODM P.342, Deloro Township.

Geology: Porphyry dikes cut basaltic lavas. A pipe-like stockwork of quartz stringers occurs within the porphyry with individual quartz lenses up to 15 inches in width. Ore mined averaged 0.23 ounces gold per ton.

History: 1915: Shaft 40 feet deep sunk by Pike Lake Gold Mines Ltd.
1933-37: Open pit 50 feet by 50 feet by 70 feet deep, with 200 feet of drifting on the 60-foot level driven from the open pit. About 25,000 feet of diamond drilling by McLaren-Porcupine Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1933-37	201	37	6,819	876

(ODM Statistical File, J.D. McLaren (McLaren-Porcupine).

References: ODM 1967, Open File Rept. 5012, p.95-96
Mineral Resources Branch File, Gold - McLaren-Porcupine
ODM 1939, Vol. 48, pt.1, p.166.

Preston Mine (Porcupine Pet)

Main Metals: Au.

Location: 4 miles southeast of Timmins, Deloro Township, northeast part.
HR907 (P8285).
Map Reference: ODM P.342, Deloro Township.

Ownership: Preston Mines Ltd.

History: 1914-15: Ore was raised from the 50-foot level and treated in a small mill. In 1914 gold valued at $5,000 was recovered and in 1915, 314 ounces valued at $5,551 was produced by Porcupine Pet Gold Mines Ltd. (ODM Statistical File, Porcupine Pet Gold Mines Ltd.).

References: Geol. Surv. Canada, 1936, Mem. 192, p.110.

Preston Mine (Porphyry Hill)

Main Metals: Au.

Location: 4 miles southeast of Timmins, Deloro Township, northeast part. Claims HF393, L0324 (P8540), L0325, L0327 (P287), L0328 (P8286). Map Reference: ODM P.342, Deloro Township.

Ownership: Preston Mines Ltd.

History: 1913-15: 46 tons of ore milled and 312 ounces of gold valued at $6,236 recovered by Porcupine Porphyry Hill Gold Mines Ltd. (ODM Statistical File, Porphyry Hill Gold Mine).

Powell Prospect

Main Metals: Au.

Location: 6 miles southeast of Timmins, Deloro Township, northeast part. Claims ME20 to ME23 and ME29 to ME311. Shaft on ME29, west-central part. Map Reference: ODM P.342, Deloro Township.

Geology: On claims ME21 and ME22 a zone of carbonatized basalt strikes somewhat south of west. Quartz veins and stringers within this zone contain visible gold. In the northern part of ME22 a narrow band of information in rhyolite breccia is mineralized with gold.

Economic Features: The best assay from drilling in iron formation was 0.29 ounces of gold over a core length of 3 feet (ODM 1967, Open File Rept. 5012, p.88).

History: 1911: Two shafts 1/2 mile apart, each sunk to 50 feet, stripping and trenching by Mr. Powell.
- : 10 drill holes ME22 to check gold content of iron formation.
1939: Drilling by Irvin Porcupine Gold Mines Ltd.

References: OBM 1911, Vol. 20, pt.2, p.31
Survey of Mines 1949, p.171
ODM 1967, Open File Rept. 5012, p.88
Mineral Resources Branch File, Irvin Porcupine.

GARRISON TOWNSHIP

Buffonta Prospect

Main Metals: Au.

Location: 23 miles east of Matheson, Garrison Township, south-central part. Claims L21773, L21774, L21844, L27618, etc. Open pit on claim L21773. Map Reference: ODM 1949-1, Garrison Township.

Geology: Mafic volcanics adjacent to a granite intrusive are cut by granite dikes. At the open pit the basalt is minutely fractured and contains quartz-albite veinlets mineralized with pyrite and gold. No. 5 zone strikes N38°W, dips 70°SW and has been traced for 900 feet. No. 6 zone strikes N68°W and persists for 1,100 feet.

Economic Features:

Ore Zone	Length feet	Width feet	Depth feet	Grade ounces	Reserve tons
Open Pit					
A zone	-	5	-	0.314	15,000
B zone	-	5	-	0.308	17,000
No.5 zone	310	5-9	250	0.282	44,500
No.6 zone	165	5-8	100	0.217	8,500

(Reference ODM 1948, Vol. 57, pt.4, p.22).

Ownership: Buffonta Mines Limited.

History: 1919-35: Gold discovered, trenching and stripping by Digby Grimston.
1936-37: Open pit 80 by 60 feet to a depth of 30 feet, and mill of 50 tons per day operated by Amca Mines Limited.
1937: Eight holes 1,759 feet drilled under an option agreement by Hollinger Consolidated Gold Mines Limited.
1939: Trenching, mapping and 15 holes 5,750 drilled in the NO. 5 zone by Buffonta Mines Limited.
1941: Eight holes 2,064 feet in the open pit, No. 5 and No. 6 zones by Buffonta Mines Limited.
1942-47: J. Hollinger drilled 8 holes 3,600 feet in the No. 5 zone.

Production:

Year	Gold ounces	Value dollars	Silver ounces	Value dollars	Total Value dollars	Ore Milled tons
1937	37	1,296	4	2	1,298	-

(ODM Statistical File, Amca Mines Ltd.).

References: ODM 1949, Vol. 58, pt.4, p.20-22.

Garrcon Prospect

Main Metals: Au.

Location: 24 miles east of Matheson, Garrison Township, northeast part. Claims L26344, L26343, L26121 etc. Shaft on this claim L26344.
Map Reference: ODM 1949-1, Garrison Township.

Geology: Narrow veins and irregular zones of quartz in greywacke contain gold. However, the stringers were not wide enough or numerous enough to produce ore zones.

Economic Features:

Mineralized Zone	Length feet	Width feet	Grade ounces
Shaft Collar	-	-	0.50
120-foot level	-	-	0.10
211 drift North and South	90	6	0.10
223 drift North	100	1	0.07
227 drift North	20	0.8	0.195

(Reference ODM 1949, Vol. 58, pt.4, p.24).

History: 1935-37: Shaft inclined 62°S to a depth of 260 feet, with levels at an inclined depth of 120 feet and 240 feet with 636 feet of lateral work on the upper level and 3,665 feet on the 240-foot level, surface drilling 21 holes 5,870 feet, underground drilling 33 holes 11,029 feet; work by Garrcon Mines Ltd.

References: ODM 1937, Vol. 46, pt.1, p.118
ODM 1938, Vol. 47, pt.1, p.107
ODM 1949, Vol. 58, pt.4, p.23-24.

Grimston Prospect

Main Metals: Au.

Location: 23 miles east of Matheson, Garrison Township, southwest part. Claims L13368, L13369, L13579, L15490, L15602, drilling on claims L13368 and L13579.
Map Reference: ODM 1949-1, Garrison Township.

Geology: Uniform and pillowed Keewatin basalts with some associated chert strike N80°E and dip 70°S. A chert band 4 feet wide is weakly mineralized with pyrite and disseminated pyrite is present in parts of the basalt. Drilling has indicated that the Buffonta breccia zone containing quartz stringers pyrite and gold extends westward into the property.

Economic Features: Gold values were found in 8 of the 12 drill holes exploring the western extension of the Buffonta mineralization. The following drill intersections were obtained:

Length feet	Gold Content ounces per ton
1.8	0.102
2.7	1.123
13.7	0.233
11.3	0.208

(Mineral Resources Branch File, Golden Croesus and Grimston Claims).

Ownership: Golden Croesus Mines Limited.

History: 1923-25: Surface work by Digby Grimston.
1926-29: Trenching, pits 30 feet by 10 feet by 6 feet deep and 10 feet by 4 feet by 4 feet deep by Grimston Porcupine Gold Mines Ltd.
1961-62: Magnetic and electromagnetic surveys, diamond drilling 15 holes 5,489 feet by Golden Croesus Mines Ltd.

References: ODM 1949, Vol. 58, pt.2, p.18
Mineral Resources Branch File, Golden Croesus and Grimston Claims.

GUIBORD TOWNSHIP

Gold Pyramid Prospect

Main Metals: Au.

Location: 10 miles east of Matheson, Guibord Township, NE1/4 of N1/2 lot 11, con. VI (claim L2252).
Map Reference: ODM 1951-6, Guibord Township.

Geology: Argillite strikes southeast and dips 80°SW. Two veins are present both of which strike N65°E, dip vertically and consist of quartz with small amounts of pyrite, chalcopyrite, galena and native gold. The veins are up to one foot in width and at least 200 feet long.

History: 1911-12: Shaft to 32 feet, 160 feet of drifting on the 30-foot level and vein stoped out to surface. Shaft to 60 feet and on 60-foot level, short crosscut. Small stamp mill operated by The Gold Pyramid Mining Company of Larder Lake Ltd.
1932: Property examined by Hollinger Consolidated Gold Mines Ltd.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1911	36	650	175

(ODM 1951, Vol. 60, pt.9, p.45).

References: OBM 1912, Vol. 21, pt.1, p.152
ODM 1951, Vol. 60, pt.9, p.45-46.

Talisman Prospect

Main Metals: Au.

Location: 11 miles east of Matheson, Guibord Township, NW1/4 of S1/2 lot 7, con. VI.
Map Reference: ODM 1951-6, Guibord Township.

Geology: Keewatin arkose and greywacke strike east, dip 80°S and contain lamprophyre dikes up to 8 feet wide. The veins strike N55° to 65°E, dip 80°S and consist of quartz, inclusions of wallrock and pyrite, chalcopyrite and tetrahedrite. The veins are from 150 to 250 feet in length and up to 1.5 feet in width with No. 2 vein persisting from surface to beyond the 100-foot level. No. 1 vein pinches out at a depth of 30 feet.

History: 1923-24: Shaft sunk to 108 feet, on 60-foot level 30 feet of drifting, on 100-foot level 92 feet of drifting and 359 feet of crosscutting by Gardner Mines Ltd.
1934: On the 30-, 60- and 100-foot levels 374 feet of drifting and 694 feet of crosscutting by Talisman Gold Mines Ltd.

References: ODM 1924, Vol. 33, pt.7, p.27
ODM 1935, Vol. 44, pt.1, p.145
ODM 1936, Vol. 45, pt.6, p.33-35
ODM 1951, Vol. 60, pt.9, p.47.

HARKER TOWNSHIP

Coin Lake Prospect

Main Metals: Au, Ag.

Location: 32 miles east of Matheson, Harker Township, adjacent to east boundary, claim L7247.
Map Reference: ODM 1951-4, Harker Township.

Geology: Keewatin mafic volcanics strike N70°E and the Meridian vein strikes parallel to the flows at 80°S. The Meridian vein persists for a length of several hundred feet and varies in width from 6 to 52 inches.

Economic Features: The best mineralization was a zone 200 feet long 2.5 feet wide which averaged 0.25 ounces of gold per ton.

Ownership: Coin Lake Gold Mines Limited.

History: 1917-24: Trenching and shaft to 48 feet.
1945: 17 drill holes with a total length of 3,317 feet drilled by Coin Lake Gold Mines Ltd.

References: ODM 1951, Vol. 60, pt.7, p.26-27.

Harker Prospect

Main Metals: Au.

Location: 32 miles east of Matheson, Harker Township, southeast part.
No. 1 shaft on claim L13138, No. 2 shaft L9142, mineralized zone on claims L9142, L13138, L7306.
Map Reference: ODM 1951-4, Harker Township.

Geology: The country rocks are basalts which strike N70°E and dip steeply south. Small dikelets of syenite are present in the outcrop and larger masses of syenite have been intersected in the underground workings. The vein strikes N58°E and dips 80°S. The vein zone is 6-12 feet in width and 3,000 feet in length. Vein material consists of quartz, carbonate and feldspar and pyrite has developed in the adjacent wall rock. Gold occurs within quartz and finely disseminated within pyrite.

Economic Features: The assay plans of No. 1 vein show many hundreds of feet on the various levels, with average values from 0.10 to 0.20 ounces of gold per ton across drift widths. Several short sections of material assaying 0.34 ounces of gold per ton were also encountered (ODM 1951, Vol. 60, pt.7, p.32).
Higher grade mineralization:

Location	Tons	Grade ounces
Above 500-foot level	37,555	0.273
Below 500-foot level	10,000	0.25

(Mineral Resources Branch File, Harker).

History: 1924-29: No. 1 shaft 1,000 feet, levels at 125, 250, 375, 500 and 1,000 feet with about 7,000 feet of lateral work. No. 2 shaft 58 feet. Several thousand feet of surface drilling by Harker Gold Mines Ltd.

References: ODM 1925, Vol. 34, pt.6, p.94
ODM 1929, Vol. 38, pt.1, p.107-108
ODM 1951, Vol. 60, pt.7, p.30-33
Mineral Resources Branch File, Harker.

Harlight Prospect

Main Metals: Au.

Location: 32 miles east of Matheson, Harker Township, southeast part.
Exploration mainly on claims L13593, L13594 and L14246.
Map Reference: ODM 1951-4, Harker Township.

Geology: Two bands of rhyolite are interbedded with Keewatin basalt. Drilling has shown that the rhyolite on claim L13593 strikes N63°E and dips 70°S and ranges in width from 8 to 37 feet. Quartz stringers in the rhyolite are mineralized with pyrite, chalcopyrite, galena and gold.

Economic Features: Drilling at 100-foot intervals indicated that over a length of 1,200 feet and an average width of 6 feet the average gold content was 0.144 ounces per ton. The better grade sections within this zone were west end 200 feet by 5 feet containing 0.25 ounces of gold per ton and east end 300 feet by 5.5 feet containing 0.21 ounces of gold per ton (ODM 1951, Vol. 60, pt.7, p.33-34). The assay plan facing page 34 (ODM 1951, Vol. 60, pt.7) shows a lower gold content than indicated by the above estimates.

History: 1923: Gold discovered and surface work by James R. Cryderman.
1933: Surface drilling 12 holes 842 feet by Ontario Cryderman Gold Mines Limited.
1941: 12 holes 2,558 feet drilled under an option agreement by The Consolidated Mining and Smelting Company of Canada Limited.
1945, 1947: Magnetic surveys, one drill hole 1,070 feet by Harlight Gold Mines Limited.
1961: Surface exploration by Tumac Mining and Development Company Ltd.

References: ODM 1951, Vol. 60, pt.7, p.33-34
Mineral Resources Branch File, Harlight.

HISLOP TOWNSHIP

Golden Arrow Prospect

Main Metals: Au.

Location: Six miles south of Matheson, Hislop Township. 11 claims including con. I, lot 12 S1/2, lot 13 E1/2 of S1/2. No. 1 shaft in NE1/4 of S1/2 lot 13, con. I and No. 2 shaft in NE1/4 of S1/2 lot 12, con. I.
Map Reference: ODM 1955-5, Hislop Township.

Geology: The East zone is in a syenite stock about 3,000 feet in diameter with the best gold mineralization extending across the stock. Gold is associated with finely disseminated pyrite in fractured and silicified syenite. The zone is adjacent to a fault which strikes northeast and has been explored to a depth of 400 feet.
The West zone is a quartz stringer zone in basalt adjacent to the stock which strikes N80°E and dips 65°N. Pyrite is present in the quartz with the best mineralized zone 120 feet long and 10 to 15 feet wide.

Economic Features: Surface drilling indicated 3 main zones with 1,045 tons per vertical foot averaging 0.134 ounces of gold per ton. Underground development tended to confirm surface drill results (Survey of Mines 1955, p.189). A lenticular zone on the 250-foot level is 150 feet long, 40 feet wide and averages 0.15 ounces of gold per ton (ODM 1956, Vol. 65, pt.5, p.37).

Ownership: Canadian Arrow Mines Ltd.

History: 1935-37: Surface sampling, trenching,800 feet of diamond drilling, and No. 1 shaft sunk to 48 feet; work done by Golden Arrow Mining Company Limited and under an option by Hollinger Consolidated Gold Mines Ltd.
1946-47: No. 2 shaft sunk to 429 feet, levels at 250 and 400 feet, total drifting 1,628 feet, crosscutting 669 feet, surface drilling 27 holes 14,906 feet, underground drilling 58 holes 3,675 feet, by Golden Arrow Mines Ltd.

References: ODM 1936, Vol. 45, pt.6, p.32-33
ODM 1937, Vol. 46, pt.1, p.138-139
Canadian Mines Handbook 1938, p.107
ODM 1948, Vol. 57, pt.2, p.31
Survey of Mines 1955, p.189
ODM 1956, Vol. 65, pt.5, p.35-37.

Hislop Prospect

Main Metals: Au.

Location: Nine miles east of Matheson, Hislop Township, NE1/4 of N1/2 lot 1, con. IV, etc. Two shafts on this claim, formerly held adjacent claims Guibord Township.
Map Reference: ODM 1955-5, Hislop Township.

Geology: Keewatin basalt is intruded by syenite dikes. A quartz vein 1 to 2 feet wide strikes east and in other places quartz stringers containing pyrite and gold are present.

Ownership: Gunnar Mining Ltd.

History: 1935-37: No. 1 shaft to 50 feet, No. 2 shaft 170 feet, level at 150 feet, drifting 290 feet, surface drilling 1,870 feet, underground drilling 2,501 feet by Hislop Gold Mines Ltd. and under an option by Ventures Ltd. and Mining Corporation of Canada Ltd.
1946: 15 holes 9,446 feet drilled by Hislop Mines Ltd. in Guibord Township part of the property.

References: ODM 1936, Vol. 45, pt.5, p.27-29
ODM 1938, Vol. 47, pt.1, p.132
ODM 1951, Vol. 60, pt.9, p.51
ODM 1956, Vol. 65, pt.5, p.38.

Kelore Prospect

Main Metals: Au.

Location: 9 miles southeast of Matheson, Hislop Township, eastern part. 17 claim group, Hislop and Guibord Townships; in Hislop part of lots 1, 2 and 3, con. III and IV, shaft W1/3 of S1/3 lot 1, con. IV (claim L26963). Map Reference: ODM 1955-5, Hislop Township.

Geology: The country rocks are intermediate to basaltic volcanics which include amygdaloidal and breccia types. Some of these rocks have been chloritized, syenitized or hematitized. Syenite dikes from 35 to 250 feet in width strike N55°W and syenitized lavas near the shaft contain dikelets of felsite and hornblende syenite. Gold is found within the main syenite body and in the rocks adjacent to it. Narrow stringers of cherty quartz are usually present where the gold content is highest and pyrite is concentrated along the margins of the quartz stringers.

Economic Features: The better mineralized sections on surface are the Shaft zone, the East zone which extends to 2,000 feet east of the Shaft and the West zone which extends 1,600 feet west of the Shaft. Assay values included 0.24 ounces for 14.4 feet, 0.23 ounces for 73.9 feet, 0.56 ounces for 15.2 feet, 0.17 ounces for 34 feet, 0.26 ounces for 11.5 feet (Survey of Mines 1947, p.234).
On the 450-foot level a zone 190 feet long and 10 to 11 feet wide averaged 0.27 ounces of gold per ton (Survey of Mines 1949, p.162). Underground work indicated 180,000 tons averaging 0.12 ounces of gold per ton above the 450-foot level (Survey of Mines 1953, p.174).

Ownership: New Kelore Mines Ltd.

History: Surface exploration and 4,914 feet of diamond drilling by Tovoric Gold Mines Limited.
1939-40: Shaft 319 feet, levels at 80, 180 and 300 feet, total drifting and crosscutting on the two upper levels 917 feet by Kelrowe Gold Mines Limited.
1947: Shaft deepened to 475 feet, level at 450 feet, lateral work 707 feet, underground drilling 18 holes 2,429 feet, surface drilling 6 holes 2,429 feet by Kelwren Gold Mines Limited.
1948: Lateral work 2,928 feet underground drilling 122 holes 12,623 feet by Kelore Gold Mines Ltd.

References: ODM 1956, Vol. 65, pt.5, p.45-47
ODM 1941, Vol. 50, pt.1, p.59
ODM 1948, Vol 57, pt.2, p.43
ODM 1949, Vol. 58, pt.2, p.35.

Ross Mine (Producer)

Main Metals: Au, Ag.

Location: 11 miles southeast of Matheson and 1/2 mile north of Holtyre, Hislop Township. N1/2 lot 1, con. II, S1/3 lot 2, con. III, and NW and SE quarters of the N1/2 of lot 2, con. III. Shaft NW1/4 N1/2 lot 1, con. II. Map Reference: ODM 1955-5, Hislop Township.

Geology: The country rocks are rhyolite tuff and breccia and basalt which are intruded by syenite. Certain zones have been carbonatized and silicified. The general strike is northwest and the dip steep. Fault zones are characterized by zones of gouge several inches in width, by calcite and quartz veins several feet in width and by abundant iron oxide. The orebodies consist of lens-shaped and pipe-like stringer lodes and vein zones consisting of parallel quartz stringers. The veins are generally only a few inches in width and consist of quartz or quartz-dolomite veins cut by later quartz-calcite veins. Small amounts of chalcopyrite, sphalerite, galena, tennantite, silver and gold are contained in the veins. Lens-shaped orebodies are 300 feet in length by 75 feet in width. The average grade is 0.17 ounces gold and 0.33 ounces silver per ton.

Economic Features: (Canadian Mines Handbook 1970-71, p.172)

Type of Reserve	Ore Reserve tons	Gold Content ounces per ton
Proven	449,000	0.191
Probable and possible	474,000	0.175

Ownership: Hollinger Mines Ltd.

History: 1933: Sampled by Frank Tremblay.
1933-35: Trenching, surface drilling. Shaft to 480 feet, levels at 150, 300 and 450 feet and 1,000 feet lateral work on 150-foot level by Hollinger Consolidated Gold Mines Ltd.
1936-68: No. 1 shaft 2,910 feet deep. Total development 50,788 feet of drifts, 47,820 feet of crosscuts. Mill handles 440 tons per operating day. Operated by Hollinger Consolidated Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1936-68	609,259	1,154,065	23,172,516	3,483,560

References: ODM 1936, Vol. 45, pt.6, p.17-23
ODM 1956, Vol. 65, pt.5, p.39-44
ODM 1968, Vol. 78, p.17-18
Struct. Geol. Canadian Ore Deposits, CIMM 1948, Jubilee Vol., p.570-579.

The carbonate zone was 3,000 feet long and 400 feet wide with the better mineralization in a part of the zone 600 to 800 feet long and 125 to 150 feet wide. Visible gold was encountered in many places but underground work failed to reveal any orebodies as gold values were low and scattered (Survey of Mines 1950, p.157).

History: 1940-46: 56 surface drill holes in the carbonatized sone. Also 6 cross sectional drill holes with a combined length of 6,000 feet. Work by Aquarius Porcupine Mines Ltd.
1946-48: Shaft to 565 feet with the upper 115 feet in a cassion in overburden. Levels at 400 and 525 feet with 906 feet of drifting, 687 feet of crosscutting and 4,500 feet of underground drilling by Aquarius Porcupine Mines Ltd.

References: ODM 1947, Vol. 56, pt.2, p.5-6
ODM 1948, Vol. 57, pt.2, p.5
Survey of Mines 1949, p.155
ODM 1969, Open File Rept. 5037, p.79-81.

Ronnoco Prospect

Main Metals: Au.

Location: 13-1/2 miles east of South Porcupine, Macklem Township, East Peninsula. Claims P8279 (T1258), P8280 (T12582).
Map Reference: ODM P.547, Macklem Township.

Geology: Carbonatized rocks occur along the north side of the peninsula and are adjacent to Keewatin basalts. A porphyry dike which strikes east and dips vertically cuts the carbonatized rocks. The porphyry dike is highly fractured and contains both coarse and fine pyrite. Gold occurs as isolated flakes in the porphyry and on the pyrite.
The dike was drilled for a length of 1,000 feet to a depth of 1,000 feet and averaged 54.5 feet wide with a gold content of about 0.076 ounces per ton (Survey of Mines 1946, p.154; 1947, p.176).

Ownership: Ronnoco Gold Mines Ltd.

History: 1914: Prospect shaft and surface work by Lascelles and Mann.
1946-47: 38 drill holes approximately 11,500 feet were drilled by Ronnoco Gold Mines Ltd.

References: ODM Timmins file T-110
Survey of Mines 1946, p.154
Survey of Mines 1947, p.176
ODM 1969, Open File Rept. 5037, p.88-89.

MOUNTJOY TOWNSHIP

Polaris Prospect

Main Metals: Au.

Location: 1/2 mile north of Timmins, Mountjoy Township, southeast part. S1/2 lot 1, con. III Polaris shaft NW1/4 S1/2 lot 1, con. III. Map Reference: ODM 47a, Porcupine area; ODM P.22, Mountjoy Township.

Geology: Keewatin basalts are intruded by a sill of serpentinite. The Polaris shaft is near the axis of the North Tisdale anticline and the strike is N15°E.

History: 1928-29: Polaris shaft to 265 feet, level at 250 feet with approximately 10 feet of crosscutting work by Polaris Gold Mines of Canada Ltd.
1936-37: Shaft dewatered and sampling of underground workings, magnetic survey, 23,441 feet of surface drilling by Polaris Gold Mines (Canada) Ltd.
1947-48: Magnetic survey, and 2 drill holes, shaft dewatered by Apollo Porcupine Mines Ltd.

References: ODM 1930, Vol. 39, pt.1, p.120
ODM 1934, Vol. 46, pt.1, p.192
Canadian Mines Handbook 1938, p.223
Survey of Mines 1949, p.167.

MUNRO TOWNSHIP

American Eagle Prospect

Main Metals: Au.

Location: 10-1/2 miles east of Matheson, Munro Township, S1/2 lot 10, con. I. Map Reference: ODM 1951-5, Munro Township.

Geology: Quartz veins and stringers are present in carbonatized greywacke.

Production: 1911-12: Shaft sunk 70 feet with 30 feet of drifting and 50 feet of crosscutting.

Year	Gold ounces	Total Value dollars	Ore Milled tons
1911	40	900	60

(ODM 1951, Vol. 60, pt.8, p.45).

References: ODM 1951, Vol. 60, pt.8, p.45.

grade of 0.388 ounces of gold per ton (Mineral Resources Branch File, De Santis Gold Mine).

Ownership: New Hope Porcupine Gold Mines Ltd.

History: 1914-15: No. 1 shaft sunk to a depth of 70 feet.
1922: No. 1 shaft deepened to 115 feet, No. 2 shaft sunk to 60 feet, called Langmuir property.
1931-34: No. 1 shaft deepened to 215 feet with 327 feet of lateral work on the 90-foot level and 3,991 feet of lateral work on the 200-foot level by The DeSantis Gold Mining Company Ltd. A mill of 25 tons per day capacity was installed in 1933.
1935-42: No. 2 shaft 1,244 feet deep, levels at 200, 325, 450, 575, 700, 800, 925, 1,050 and 1,175 feet, total drifting 10,751 feet and crosscutting 5,716 feet, underground drilling 782 holes 51,924 feet, mill capacity about 170 tons per day by De Santis Porcupine Gold Mines Ltd.
1944-45: 7,500 feet of surface drilling by De Santis Porcupine Gold Mines Ltd.
1960-62: Geophysical work and surface drilling 39 holes 26,179 feet by New Hope Porcupine Gold Mines Ltd.
1964: 335 feet of drifting on the 700-foot level, and 59 feet of raising, 6 underground drill holes 248 feet, 1,490 tons of ore hoisted and milled by Kenilworth Mines Ltd.

Production:

Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Average Value dollars
35,842	3,142	1,368,765	35,842	6.89

Years of production: 1933, 1939-42, 1-64.
(ODM Statistical Files, De Santis Porcupine Mines Ltd. and 1964 from Kenilworth Mines Ltd.).

References: ODM 1926, Vol. 35, pt.6, p.27-28
ODM 1931, Vol. 40, pt.1, p.71-72
ODM 1940, Vol. 49, pt.1, p.109
ODM 1943, Vol. 52, pt.1, p.99-100
ODM 1964, Vol. 74, p.34
ODM 1967, Open File Rept. 5012, p.80-81.

Gold Quill Prospect

Main Metals: Au.

Location: 3 miles south of Timmins, Ogden Township, adjacent to eastern boundary. Claims TRS1178 (HR1271) and TRS1179 (claims now cancelled). Map Reference: ODM 35g, Carscallen, Bristol and Ogden Townships.

Geology: Keewatin, felsic agglomerate has a schistosity that strikes N85°E and dips 70°N. A quartz vein 2 feet in width and 150 feet long strikes approximately east and dips steeply south. The wall rock of the vein is mineralized with pyrite.

Economic Features: Samples taken in 1940 failed to return any assays higher than traces of gold (ODM 1967, Open File Rept. 5012, p.106).

History: 1924-26: Surface work and 1,000 feet of diamond drilling, shaft to 22 feet on claim TRS1178 (HR12711) by Gold Quill Mines Ltd.
1929-30: Shaft deepened to 125 feet, level at 125 feet and 70 feet of lateral work. Trenching and diamond drilling by Ridgedome Mines Ltd.
1939: Diamond drilling by Ridgegold Porcupine Mines Ltd.

References: ODM 1926, Vol. 35, pt.6, p.26
ODM 1930, Vol. 39, pt.1, p.122
ODM 1967, Open File Rept. 5012, p.105-106.

McEnaney Prospect

Main Metals: Au.

Location: 3-1/2 miles southwest of Timmins, Ogden Township, north-central part. Claims ME45 (TRP86), ME46 (TRP85), HR948 (TRP1072-1/2), HR949 (TRP1073), TRP87, HR925 (P14768), HR1000 (TRP1074). Shaft on ME45.
Map Reference: ODM P.341, Ogden Township.

Geology: Basalts strike east and dip steeply north and veins cut across the bedding at a small angle. In the underground workings the main vein zone is 600 feet long by 15 inches in width with pyrite in the adjacent wallrock. The pyrite carries little gold and individual quartz stringers 2 to 3 inches wide carry native gold but are too small to be mined profitably. On the 600-foot level the vein assayed 0.06 ounces over a width of 6 feet.

History: 1912-13: Shaft 200 feet, winze 200 feet to 318 feet. Levels at 100, 200, 300 feet with 2,047 feet of lateral work.
1922-23: Winze deepened to 600 feet and on 600-foot level 610 feet of drifting and crosscutting and 3,400 feet of drilling.
1934: Rock from the dump produced an unsatisfactory gold recovery; work by Sun Ray Gold Syndicate.
1936: Mine sampled and fair gold content was reported over short lengths by Hollinger Consolidated Gold Mines Ltd.
1939: Geophysical survey by Milton Gold Mines Ltd.
1940: Drilling by Nipissing Mines Company.

References: ODM 1926, Vol. 35, pt.6, p.23-24
OBM 1913, Vol. 22, pt.1, p.130
OBM 1914, Vol. 23, pt.1, p.163
Mineral Resources Branch File, McEnaney.

Naybob Mine (Past Producer)

Main Metals: Au, Ag.

Location: 3-1/2 miles south of Timmins, Ogden Township, eastern part. 14 claims with development and workings on HR937 (TRP1019), HR938 (TRS1021), HR939 (TRS1020), HR1007 (P8303), HR1008 (TRS933), HR1091 (P8594). Shaft on claim HR938 (TRS1021).
Map Reference: ODM P.341, Ogden Township.

Geology: The Destor-Porcupine fault is on the south side of the mine workings. The rock sequence north of the fault is about 250 feet of Keewatin pillowed basalt, a porphyry dike of variable width, about 400 feet of brecciated and carbonatized felsic to mafic volcanic rocks. The strike is N70°W and the dip almost vertical.

Economic Features: The north ore zone was found in 1939 and is about 400 feet long, 100 feet wide and extends from the 200-foot level to below the 700-foot level. It is a stockwork of quartz stringers with associated ankerite and bright green mica. Native gold and small amounts of galena occur in the stringers. No ore shoots were found below the 700-foot level (ODM 1967, Open File Rept. 5012, p.79). The largest orebodies were up to 300 feet long, 17.5 feet wide and 350 feet vertically with an average grade of 0.23 ounces of gold per ton. Early exploration of the mine was in the south ore zone which is in basalt adjacent to the Destor-Porcupine fault. Mineralization consists of from 3 to 10 percent disseminated pyrite and arsenopyrite with a uniform low grade gold content. Better grade mineralization consisted of short lenses 3 to 4 feet wide containing 0.08 ounces of gold per ton.

Ownership: Kenilworth Mines Ltd.

History: 1915-30: Shaft to 719 feet, levels at 100, 200, 300, 400, 550 and 700 feet, lateral work 2,300 feet, drilling 10,000 feet; work by Hayden Gold Mines Ltd.
1934-42: Shaft to 1,347 feet, additional levels at 700, 825, 950, 1,075, 1,175, and 1,275 feet, total drifting 22,021 feet, total crosscutting 8,440 feet, mill capacity 200 tons per day; work by Naybob Gold Mines Ltd.
1946-47: Drifting 1,443 feet, crosscutting 124 feet, surface drilling 14 holes 9,514 feet, underground drilling 155 holes 15,344 feet; work by Naybob (1945) Gold Mines Ltd.
1962-65: Shaft 1,347 feet, total drifting 25,326 feet, crosscutting 8,905 feet. Purchased and operated Coniaurum mill at a milling rate of 600 tons per day approximately half the mill feed from underground and the balance from surface dump. Work by Kenilworth Mines Ltd.

Production:	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
	50,731	5,216	1,931,132	304,100	190,912

Years of production: 1932, 1933, 1935, 1937-43, 1948, 1955, 1957, 1963, 1964.

References: OBM 1916, Vol. 25, pt.1, p.90
ODM 1926, Vol. 35, pt.6, p.24-25
ODM 1944, Vol. 53, pt.1, p.141-142
ODM 1965, Vol. 75, p.32
ODM 1967, Open File Rept. 5012, p.77-81.

RICKARD TOWNSHIP

Twindyke Prospect

Main Metals: Au.

Location: 15 miles north of Matheson, Rickard Township, central part. S1/2 of the S1/2 lot 7, con. IV etc. Shaft SW1/4 of S1/2 lot 7, con. IV (claim L18405).
Map Reference: ODM 2073, Rickard, Knox and Kerrs Townships.

Geology: Keewatin basalts with a bed of acid tuff strike in a northerly direction. A sill of Haileyburian mafic rocks 100 feet wide is associated with the basalt. The more northerly vein in the shaft area strikes east and dips 60°S and is about 2.5 feet wide. The southern vein strikes N75°W and dips 60°S and consists of a stringer zone 8 feet wide. The vein material consists of quartz and carbonate with small amounts of pyrite, chalcopyrite, galena, molybdenite and gold.

Economic Features: Underground work on the 100-foot level supplemented by surface drilling indicated only very low gold values below a depth of 40 feet (Mineral Resources File, Twindyke Mine). A mineralized zone adjacent to the shaft 1,000 feet long, 75 feet wide drilled to a depth of about 400 feet contains an average of 35 percent sulphur and 31 percent hematite. The south sulphide zone is 1,000 feet long, 500 feet wide and averages 39 percent sulphur and 35 percent hematite (Survey of Mines 1954, p.186).

History: 1917: Surface work and pits by John Raty.
1918: 2,000 feet of surface drilling, shaft inclined 85°S to 100 feet, about 700 feet of drifting and crosscutting on the 100-foot level; The Mining Corporation of Canada Limited.
1934-37: Shaft deepened to 220 feet, about 1,000 feet of drifting and crosscutting on the 100-foot level, 425 feet lateral work on the 200-foot level, about 10,000 feet of diamond drilling by Rickard Ramore Gold Mines Limited.
1939-42: Winze from 200 to 275 feet, total lateral work 100-foot level 2,700 feet, 200-foot level 875 feet, 275-foot level 1,000 feet, total drilling 20,000 feet, additional work by Twindyke Mines Limited.
1944-53: Additional surface drilling to test sulphide zones by Twindyke Mines Ltd.

References: OBM 1919, Vol. 28, pt.2, p.61-62
ODM 1937, Vol. 46, pt.1, p.197
Survey of Mines 1954, p.186
ODM 1965, GR37, p.20-22
Mineral Resources Branch File, Twindyke Mine.

SHAW TOWNSHIP

Carshaw Prospect

Main Metals: Au.

Location: 9 miles southeast of South Porcupine, Shaw Township. Claims P416, EP371 (P13814), HR931 (P8299) and P8621 and in Carman Township 11 adjacent patented claims. Shaft is on claim EP371.
Map Reference: ODM P.343, Shaw Township.

Geology: An iron formation band is interbedded with pillowed and uniform Keewatin basalt. The strike is approximately north and the dip 25°E. These rocks are intruded by porphyry dikes and small plugs of serpentinite. Drilling has shown that the iron formation persists for at least 2,200 feet, is about 10 feet wide and consists of chert interbedded with magnetite with seams of pyrrhotite and disseminated pyrite. Quartz-carbonate veins and stockworks are present in the iron formation with the larger veins striking northwest and dipping steeply southwest. Metallic minerals present in small quantities with the quartz and carbonate are pyrite, pyrrhotite, galena and gold.

Economic Features: Over a length of 800 feet of iron formation in two adjacent blocks were calculated to contain 93,000 tons containing 0.375 ounces of gold per ton. Further surface drilling near the shaft in 1948 indicated a total of 230,000 tons averaging 0.257 ounces of gold per ton (Survey of Mines 1950, p.170). Underground work was suspended in 1952 "since results did not justify further work" (ODM 1952, Vol. 61, pt.2, p.13).

Ownership: Carshaw Porcupine Gold Mines Ltd.

History: 1931: Shaft to 143 feet, on 125-foot level 350 feet of lateral work by Shaw Porcupine Gold Mines Ltd.
1945-51: 33 surface drill holes, trenching outcrops, additional work on the 125-foot level for 1,118 feet total lateral work by Carshaw Porcupine Mines Ltd.

References: ODM 1932 Vol. 41, pt.1, p.87
Survey of Mines 1950, p.170
ODM 1952, Vol. 61, pt.2, p.14
ODM 1967, Open File Rept. 5012, p.109-110
Mineral Resources Branch File, Carshaw
ODM 1969, Open File Rept. 5037, p.56-57.

Novell Prospect

Main Metals: Au.

Location: 3 miles south of South Porcupine, Shaw Township, western part. Claims HR885 (13245), HR887 (13246), HR889 (13247). Deloro Township claims HR886 (TRS770), HR888 (TRS7711). Shaft on cliam HR887.
Map Reference: ODM P.343, Shaw Township.

Geology: Keewatin basalt underlies most of the claim group with serpentinite in the southern part. Many quartz veins occur on the property and pyritized iron formation is present on claims HR887 and HR888.

Economic Features: Twenty two samples taken from old trenches assayed from trace to $2.80 (0.08 ounces of gold) per ton. Asbestos has been reported in diamond drilling (Mineral Resources Branch File, Novell).

Ownership: Consolidated Novell Mines Ltd.

History: 1909-24: Surface work by owners James and Whalen.
1925-28: Main shaft sunk to 185 feet, 1,200 feet of lateral work on the 125-foot level. Two other shafts to 50 and 65 feet in depth. Workings by Furness Gold Mines Limited.
1934: Surface work and diamond drilling by Excello Mines Limited.
1944, 1953: About 5,000 feet of diamond drilling by Novell Porcupine Gold Mines Limited.
1964-65: Geophysical and geological surveys and sampling by Consolidated Novell Mines Limited.

References: ODM 1928, Vol. 37, pt.1, p.105
ODM 1935, Vol. 44, pt.1, p.92-93
ODM 1967, Open File Rept. 5012, p.103
Mineral Resources Branch File, Novell.

Tommy Burns Prospect

Main Metals: Au.

Location: 9 miles southeast of South Porcupine, Shaw Township, southeast part. Claims ED P7885 (HR1005), P8300 (ED372), P8301 (ED373), P8302 (TC608) etc. Shafts on claims P8300 and P8301.
Map Reference: ODM P.343, Shaw Township.

Geology: Keewatin basalts are interbedded with iron formation and rhyolitic agglomerate and are cut by porphyry dikes. The strike is arcute changing from northwest in the northern part of the claim group to southwest in the southern part.
The Tommy Burns vein strikes northwest and dips 60°SW. It is more than 350 feet long, averages about 2 feet wide and consists of quartz containing

small amounts of pyrite and gold. The Macklin vein is narrow and has been traced for 150 feet.

One of the two iron formation bands is called the Sulphide Zone. This zone consists of thin bands of chert interbedded with hematite and magnetite. Gold bearing quartz stringers form crosscutting veinlets and pyrite and pyrrhotite have developed adjacent to the veinlets. The Sulphide Zone strikes N20°E and dips 25°E and from drilling is known to be 1,600 feet long and from 4 to 80 feet wide. Since 1931 most of the exploration has been on this zone.

Economic Features: Mineralized zone estimated as 70,000 to 80,000 tons averaging 0.23 ounces of gold per ton (Canadian Mines Handbook 1968-69, p.210).

Ownership: M & M Porcupine Gold Mines Limited.

History: Shafts to 40 feet and 25 feet by Tommy Burns Gold Mines Ltd.

1921-22: Trenching, Tommy Burns shaft inclined 70° (claim P8300) to 105 feet, on 100-foot level 30 feet of drifting north and 37 feet south. No. 2 shaft (claim P8301) to 125 feet, on 100-foot level 600 feet of lateral work by Triplex Gold Mines Ltd.

1937: Trenching, surface drilling and sampling of the underground workings by Arcadia Gold Mines Ltd.

1938: Test pits and 5,015 feet of surface diamond drilling by Credo Porcupine Gold Mines Ltd.

1942: About 800 tons of ore mined from an open cut, 292 tons of ore used for a mill test at Buffalo Ankerite. Work by Wolfsteve Mining and Development Company Ltd.

1944-46: No. 3 shaft (claim P8301) to 221 feet, about 14,000 feet of drilling by Malga Porcupine Gold Mines Ltd.

1964-65: Magnetic Survey, bulk sampling, some lateral work on 185-foot level No. 3 shaft, 2,200 feet of drilling by M & M Porcupine Gold Mines Ltd.

Production: In 1917, 21 tons milled and 14 ounces of gold valued at $289 recovered (ODM Statistical File, Tommy Burns Gold Mining Co.). No production is reported from the mill test at Buffalo Ankerite in 1942. The grade of the shipment was $10 to $12 (0.28 to 0.34 ounces gold) per ton (Mineral Resources Branch File, Tommy Burns).

References: OBM 1917, Vol. 26, pt.1, p.107
ODM 1923, Vol. 32, pt.6, p.65
ODM 1938, Vol. 47, pt.1, p.87
ODM 1943, Vol. 52, pt.1, p.198-199
ODM 1949, Vol. 56, pt.1, p.65
ODM 1967, Open File Rept. 5012, p.112-114.

TISDALE TOWNSHIP

Augdome Prospect

Main Metals: Au.

Location: 1 mile southwest of South Porcupine. Tisdale Township, southeastern part. Fourteen claims, con. I, part of lots 1, 2 and 3.
Map Reference: ODM 2075, Tisdale Township.

Geology: The most western claim adjacent to Preston East Dome Mine has been most intensively explored. Keewatin rocks are basalt, felsic volcanics and argillite. Ultramafic rocks altered to serpentinite intrude the Keewatin rocks. The strike is N50°E and the dip approximately 70°NW. The gold bearing zone containing stringers of quartz and carbonate is located near the northwestern edge of the serpentinite. Drilling has cut the deposit from 125 to 350 feet in depth for a length of 340 feet. The average true width of the mineralization is considered to be from 13 to 17 feet with an indicated grade of 0.13 to 0.17 ounces of gold per ton.

Ownership: Augdome Corporation Ltd.

History: 1909-35: J.J. Grey, trenching and 8 drill holes.
1936-56: New Augarita Porcupine Mines Ltd.
1936-37: 16 drill holes total length 5,600 feet.
1941: Preston East Dome 1,050 feet, level extended 40 feet into Augdome property and 6 drill holes with a combined length of 1,790 feet drilled from this level.
1943-44: 24 surface drill holes, 12,000 feet.
1944-45: 30 surface drill holes, seven of the holes had a combined length of 4,470 feet. Magnetic survey of 10 claims.
1949: Resistivity survey of 6 claims, 13 holes drilled, seven of the holes had a combined length of 9,000 feet.
1957-65: Augdome Exploration Ltd.
1959: 3 underground drill holes from 2.035-foot level. Dome Mine combined length 5,400 feet.
1966-67: Augdome Corporation Ltd. Drilling on iron formation 17 holes 4,989 feet. Drilling on serpentinite 7 holes 2,472 feet.

References: ODM 1968 GR58, p.72-74
Canadian Mines Handbook 1960, p.18
Northern Miner, January 26, 1967, p.78.

Beaumont Prospect

Main Metals: Au.

Location: 3-1/2 miles north of South Porcupine in the northeast portion of Tisdale Township; holding consists of 22 claims, part of lots 1, 2, 3, 4, con. VI. Beaumont shaft is situated in SE1/4, N1/2, lot 3, con. VI.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts contain pillowed and massive phases, and strike N70°E and dip steeply to the south. Quartz veins are found in two zones of carbonatized basalt. The Beaumont shaft zone is intermittently exposed for 550 feet with a width of 100 feet. Quartz stringers with small amounts of pyrite and chalcopyrite make up 10 percent of the zone.

Ownership: Godbeau Porcupine Mines Ltd.; Broulan Reef Mines Ltd. holds a substantial interest.

History: 1917: 1,500 feet drilling by North Davidson Mines Ltd.
1920-21: Beaumont shaft 320 feet, levels at 150 and 300 feet by Beaumont Gold Mines Ltd.
1927: 1,600 feet drilling by Harris Consolidated Mines Ltd.
1928: Beaumont shaft deepened to 648 feet, levels at 450 and 600 feet, lateral work 600 feet by Harris Consolidated Mines Ltd.
1954: 4 drill holes near Beaumont shaft by Broulan Reef Mines Ltd.

Economic Features: Gold values too irregularly distributed to be of economic significance.

References: ODM 1968, GR58, p.100-101.

Central Porcupine Prospect

Main Metals: Au.

Location: 2 miles east of Timmins, Tisdale Township, south-central part.
Main workings on Gold Centre ground N1/2 of N1/2 lot 7, con. II and S1/2 of S1/2 lot 7, con. III.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts near the major axis of the Porcupine syncline are overlain by rhyolitic breccia and tuff. Because of the fold axis the strike is arcuate and the plunge 30° to 47°E.
Exploration on the 1,000-foot level was directed toward the rhyolite breccia which was considered to be on intrusive porphyry. Work on the deep levels was to investigate the Acme and Pearl Lake porphyries and the adjacent rocks.

Economic Features: Some ore was found on the McIntyre 5,975-foot level (ODM 1961, Vol. 71, p.47).

Ownership: McIntyre Porcupine Mines Ltd.

History: 1919-27: Pits, a small shaft and some surface drilling by Gold Centre Mines Ltd.
1947-48: 8 surface drill holes on Gold Centre group by Central Porcupine Mines Ltd.
1934-37: Crosscut on the Coniaurum 1,000-foot level driven 3,831 feet, 27,782 feet of underground drilling and 9 holes,6,958 feet of surface drilling by Central Porcupine Mines Ltd.
1951-56: Central Porcupine subshaft sunk from Coniaurum 5,500-foot level to 6,848 feet, crosscutting on 5,500-foot level 200 feet, crosscutting on 6,800-foot level 963 feet, total drilling 19,941 feet of which 12 holes 9,706 feet were drilled from the 6,800-foot level. Work was by Coniaurum Mines for Central Porcupine Mines Ltd.
1961-62: McIntyre 5,975 and 7,875-foot levels were into the Central Porcupine section of the property by McIntyre Porcupine Mines Ltd.

References: ODM 1924, Vol. 33, pt.2, p.72
ODM 1938, Vol. 47, pt.1, p.101
ODM 1957, Vol. 66, pt.2, p.19
ODM 1961, Vol. 71, p.46-48
ODM 1962, Vol. 72, p.46-48
ODM 1968, GR58, p.130-132.

Coniaurum Mine (Past Producer)

Main Metals: Au, Ag.

Location: 1-1/4 miles northeast of Schumacher, Tisdale Township. 19 claims part of lots 6, 7 and 8, con. III. Bishop shaft SE1/4, N1/2 lot 7, con. III; Golden shaft SE1/4, S1/2 lot 8, con. III.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts strike northeast with a general dip of 63°SE. Porphyry stocks of Kenoran age which are generally conformable with the strike of the lavas but dip more steeply. The veins consist mainly of quartz and ankerite or calcite with small amounts of chlorite, sericite, tourmaline and pyrite. The larger veins dip 65°NW and the smaller veins dip steeply to the north or south with the vein zone dipping more steeply than the country rocks. Near surface the veins are up to 700 feet from the porphyry but below 4,500 feet the veins are within the porphyry.

Economic Features: The ore zone is 4,500 feet long by 400 feet wide and 5,500 feet deep. Individual ore shoots are about 6 feet wide, 100 to 400 feet in length and extend vertically 3 or 4 times the horizontal length. Ore milled 4,464,006 tons averaging 0.25 ounces of gold and 0.08 ounces of silver per ton. Ore reserves - none.

Ownership: Westfield Minerals Ltd. which is controlled by Northfield Mines Inc.

History: 1913-18: Rea shaft 400 feet deep and 1,150 feet of crosscutting on the 400-foot level by Rea Mines Ltd., Rea Consolidated Mines Ltd. and Newray Mines Ltd.
1911: Surface work and Goldale shaft to 130 feet on Goldale No. 1 group by Bewick-Moreing and Company.
1921-23: Goldale shaft deepened to 1,020 feet with 1,361 feet of drifting on the 550-foot level and 1,361 feet of drifting on the 1,000-foot level by Kerr Lake Mining Company Ltd.
1923: Bishop shaft sunk to 943 feet by Coniagas Mines Ltd.
1924-61: Bishop shaft 3,666 feet, Bishop subshaft 3,500 feet to 5,641 feet. Total drifitng 116,284 feet and crosscutting 125,893 feet by Coniaurum Mines Ltd. and Carium Mines Ltd. March to August 1961. Mill treated about 350 tons per day.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1913-18					
1928-61	1,109,574	196,522	37,396,410	4,464,006	4,071,612

(ODM Statistical Files, Coniaurum Mines Ltd.; Newray Mines Ltd.).

References: ODM 1968, GR58, p.153-158
ODM 1925, Vol. 34, pt.1, p.111-112
ODM 1961, Vol. 71, p.20-23.

Crown Mine (Past Producer)

Main Metals: Au, Ag.

Location: 1 mile southeast of Timmins, Tisdale Township, southwest part, SW1/4, S1/2 lot 11, con. II, etc.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts strik in a northeasterly direction and are intruded by the Crown porphyry stock. The Crown vein was at and near the contact of the porphyry stock. The vein was irregular with general north strike and dips 65°E. The vein was 4 to 7 feet wide with the ore shoot up to 100 feet long and 500 feet deep. Vein material consisted of quartz, carbonate, sericite, tourmaline, pyrite and native gold; transverse fractures are filled with later quartz.

Economic Features: The most important ore shoots were above the 500-foot level (ODM 1924, Vol. 33, pt.2, p.67).

Ownership: Hollinger Mines Ltd.

History: 1911-12: No. 1 shaft 60 feet, No. 2 (Crown) shaft 300 feet, No. 3 shaft 100 feet, No. 4 shaft 100 feet; work on 100-, 200- and 300-foot levels 2,270 feet by Crown Reserve Mining Company Ltd.
1913-19: Crown shaft deepened to 417 feet, winzes to 1,100 feet, levels at 500, 600, 700, 825, 950 and 1,100 feet by Porcupine Crown Mines Ltd.
1920: 1,824 feet of drifting, 2,787 feet of underground drilling by Northcrown Porcupine Mines Ltd.
1921: 7,200 feet of lateral work and 1,500 feet of drilling on the Thompson-Krist section of the property by Northcrown Porcupine Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1913-21	138,330	20,569	2,893,730	226,180	840,000

(ODM Statistical Files, Porcupine Crown Mines Ltd.).

References: OBM 1912, Vol. 21, pt.1, p.156
OBM 1913, Vol. 22, pt.1, p.130-131
OBM 1915, Vol. 24, pt.3, p.44-47
ODM 1921, Vol. 30, pt.1, p.102
ODM 1922, Vol. 31, pt.10, p.38
ODM 1924, Vol. 33, pt.2, p.67-69
ODM 1968, GR58, p.115-118.

Crown Chartered Prospect

Main Metals: Au.

Location: 2 miles north of South Porcupine, Tisdale Township, northeast part, NE1/4, S1/2 lot 2, con. V.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalt strikes N80°W. Irregular veins and stringers containing gold occur in a zone of carbonatized rocks.

History: 1911: Crown Chartered shaft 147 feet deep, at 100-foot level 175 feet of drifting and 125 feet of crosscutting.

References: OBM 1912, Vol. 21, pt.1, p.153.

Davidson Mine (Past Producer)

Main Metals: Au, Ag.

Location: 2-1/2 miles north of South Porcupine, Tisdale Township, northeast part. 7 claim groups, lots 2 and 3, con. V; 2 claim groups, lot 1, con. VI, workings NW1/4, S1/2, lot 2, con. V.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts with pillowed and uniform phases strike N80°E and dip 75°N. The mineralized zone strikes N70°E and dips 65°NW and at surface is 300 feet in length and up to 20 feet in width. Within this zone are lenses and stringers of quartz some of which are concordant with the schistosity and others at various angles. An ore shoot on surface was 50 feet long by 12 feet in width and averaged 0.63 oz. gold per ton, and on the first level was 40 feet long by 5-1/2 feet wide and averaged 1.05 oz. gold per ton.

History: 1916-20: No. 1 shaft sunk to 312 feet, winze from 300- to 500-foot level. Levels at 100, 200, 300, 500 and 600 feet. Stamp mill able to handle 30 tons per day; work by Davidson Gold Mines Ltd.
1923-24: Horseshoe shaft inclined 72°NW, sunk to 810 feet by Porcupine Davidson Mines Ltd.
1945: 11 surface drill holes with a total length of 4,235 feet put down by Ventures Ltd.

Ownership: Davidson Tisdale Mines Ltd., controlling interest held by Westfield Minerals Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1918-20	2,438	150	53,914	9,371

References: ODM 1968, GR58, p.78-82.

Dobell Prospect

Main Metals: Au.

Location: 2-1/4 miles north of South Porcupine, Tisdale Township, northeast part. Armstrong-McGibbon group claims P12886 and P12906; other group P6285, P12811-P12812, P12887-P12890, P12959.

Geology: On the Armstrong-McGibbon group pillowed and uniform Keewatin basalts strike S75°E and dip 60°-80°N. At the Armstrong-McGibbon shaft the basalt has been carbonatized with the schistosity dipping north. Irregular quartz veins containing visible gold dip to the south. At a shaft 600 feet east of the Armstrong-McGibbon shaft vein material on the dump contains visible gold

Ownership: Broulan Reef Mines Ltd.

History: 1910-11: The Dobie Mines Ltd. sank the Armstrong-McGibbon shaft to 100 feet with 200 feet of drifting at the 100-foot level. A second shaft was sunk to 50 feet. 4 surface drill holes.

References: ODM 1968, GR58, p.75-76
OBM 1912, Vol. 21, pt.1, p.153.

Dome Mine (Producer)

Main Metals: Au, Ag, Cu.

Location: 2 miles southwest of South Porcupine, Tisdale Township, southeastern part. The equivalent of 53 claims, part of lots 1, 2, 3, 4, 5, 6, con. I, II, and III. No. 3 shaft and plant in N1/2 lot 4, con. I. Map Reference: ODM 2075, Tisdale Township.

Geology: The host rocks for the ore are Keewatin basalts, Timiskaming sediments and Kenoran porphyry. The Paymaster porphyry cuts the enclosing rocks at small angles in strike and dip. The layered rocks strike from east to N75°E and dip 60°N. The mineralized zones dip more steeply than the enclosing rocks. The ankerite and quartz-tourmaline veins are persistent veins that are parallel to the trends of the country rock. Lenticular and irregular veins cut across the schistosity and the more persistent veins. Mine workings and drilling have explored a zone 9,000 feet long, 4,000 feet wide and 5,000 feet deep. Sulphides present in the vein and adjacent wall rock are up to 3 percent and consist mainly of pyrite, pyrrhotite with small amounts of sphalerite and galena. The gold is generally fairly coarse so that about 2/3 is recovered by gravity concentration and amalgamation.

Economic Features: Ore reserves 1,926,000 tons averaging 0.279 ounces of gold per ton, December 31, 1968 (Northern Miner, 55th year, No. 3, April 10, 1969, p.377).

Ownership: Dome Mines Ltd.

History: 1911-22: Mine brought into production at about 1,000 tons per day, 6,431 feet of drifting and 3,886 feet of crosscutting to the 13th level by the Dome Mines Co. Ltd.
1923-68: No. 3 shaft 2,456 feet, No. 6 internal shaft from 2,000 feet to 4,062 feet. No. 7 internal shaft from 3,950 feet to 5,323 feet. Development to date 482,631 feet of drifting and 217,557 feet of crosscutting and milling in 1968 was 1,991 tons per working day by Dome Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1910-68	9,004,490	1,595,076	284,956,489	30,602,867	96,345,900

1968: 1,524 pounds of copper from shipment of concentrate to Noranda Mines Ltd.

References: ODM 1968, GR58, p.82-98
ODM 1923, Vol. 32, pt.6, p.49-50
ODM 1968, Vol. 78, p.12-13
Canadian Mines Handbook 1968-69, p.119-120
ODM Statistical Files, Dome Mines Ltd.

Foley-O'Brien Prospect

Main Metals: Au.

Location: 1/4 mile west of the western boundary of South Porcupine, Tisdale Township, southeast part. Shaft on SE1/4, S1/2 lot 2, con. III.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts are overlain by Timiskaming greywacke and the strike is N45°W and the dip 55°NE. A vein in greywacke strikes east.

Ownership: Dome Mines Ltd.

History: 1909-10: Stripping and shaft to 150 feet by Messrs. Foley and O'Brien.
1911-14: No. 1 shaft 79 feet and 155 feet of lateral work. No. 2 shaft 165 feet and adjacent winze from 160 feet to 250 feet, on 160- and 250-foot levels 1,370 feet of lateral work. No. 3 shaft 235 feet, levels at 80 and 230 feet, lateral work 275 feet, 6 drill holes 2,477 feet by Foley-O'Brien Ltd.
1934-35: Trenching, sampling, surface drilling, 17 holes 11,875 feet, underground drilling from No. 2 shaft workings, 5 holes 2,882 feet by Foley-O'Brien Corporation Ltd.
1961-63: Underground drive and drilling on the 3,900-foot level by Dome Mines Ltd. (ODM 1968, GR58, chart F).

References: OBM 1910, Vol. 19, pt.1, p.123
OBM 1911, Vol. 20, pt.1, p.98
OBM 1914, Vol. 23, pt.1, p.160
ODM 1936, Vol. 45, pt.1, p.106-107.

Fuller Mine (Past Producer)

Main Metals: Au.

Location: 3 miles southeast of Timmins, Tisdale Township, southeast part, SW1/4, S1/2 lot 7, con. I.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts underlie the Edwards shaft porphyry. This porphyry is crescent shaped in plan is conformable with the lavas and along the axial line of the crescent dips at 50° in a direction S65°E.
The quartz-carbonate vein is in uniform basalt at or near a contact with pillowed basalt and is 60 feet from the porphyry. Mineralization occurs for a length of 700 feet and individual stopes are up to 400 feet in length and average 8 feet in width.

Production: From 1940 to 1944 6,566 ounces of gold and 8 ounces of silver valued at $252,792 was recovered from 44,028 tons of ore.

Ownership: A.S. Fuller.

History: - : Owned by W.S. Edwards, inclined shaft 50 feet deep.
1924: An English syndicate optioned the property, deepened the shaft to an inclined depth of 250 feet and three drill holes with a total length of 1,000 feet were drilled.
1940-44: Nakhodas Mining Company optioned the property from A.S. Fuller. Level established at 160 feet vertically or inclined depth of 210 feet with 2,100 feet of drifting and crosscutting. Surface drilling 41 holes 10,900 feet, underground drilling 83 short holes. Ore was treated at the Faymar mill, Deloro Township.

References: ODM 1968, GR58, p.98-100
ODM 1924, Vol. 33, pt.2, p.78; pt.7, p.46.

Gillies Lake Mine (Past Producer)

Main Metals: Au, Ag.

Location: Adjacent to the eastern side of the town of Timmins, Tisdale Township, southwest part. 720 acres, part of lots 11 and 12, con. II, III. Canadel shaft and workings P15427; 1,550-foot level workings driven from Hollinger Mine P5711.
Map Reference: ODM 2075, Tisdale Township.

Geology: The rocks in the vicinity of the underground workings are uniform and pillowed, Keewatin basalts. These rocks are in the north limb of the Northern Anticline and strike N50°E and dip 80°SE. Dikes of porphyry cut the bedding of the flows at a small angle. In the crosscut on the 100-foot level veins 2 and 3 were 30 feet and 18 feet in width, but were narrower on the 300-foot level. The veins consist of quartz lenses with associated schist bands. The vein material is quartz and carbonate with small amounts of pyrite, pyrrhotite, graphite and visible gold. A zone of quartz stringers carrying gold values below commercial grade was intersected on the 1,550-foot level driven from Hollinger.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1929-31				
	1935-37	15,278	2,449	462,482	54,502

Average grade per ton 0.28 ounces, average value $8.48.

Ownership: Associated Porcupine Mines Ltd.

History: 1917-18: Porcupine Whelpdale Mines Ltd. sank Whelpdale shaft 114 feet and 106 feet of drifting. Porcupine Gold Ridge Mines Co. sank the Porcupine Gold Ridge shaft 100 feet.
1923-24: Canadel Gold Mines Ltd. sank the Canadel shaft 947 feet, levels at 100, 300, 500 and 800 feet, about a mile of lateral workings.

1928-31: Porcupine United Gold Mines Ltd., erected a mill of 25 tons per day capacity, and operated the mine and mill.
1933-37: Gillies Lake-Porcupine Mines Ltd. operated the mine. Total crosscutting 5,686 feet, total drifting 5,326 feet, 19,951 feet diamond drilling.
1939-46: Hollinger Consolidated Gold Mines Ltd. leased property. On 1,550-foot level 488 feet of drifting, 1,714 feet of crosscutting. 5,000 feet of surface drilling, 12,000 feet of underground drilling from 300-, 500-, 1,550-, 2,000- and 2,750-foot levels.

References: ODM 1968, GR58, p.76-78
ODM 1924, Vol. 33, pt.2, p.69.

Hollinger Mine (Past Producer)

Main Metals: Au, Ag, W.

Location: Adjacent to the east side of Timmins, Tisdale Township, southwest part. 26 claims part of lots 8, 9, 10, 11, 12, con. II, main vein zone on surface S1/2 of N1/2 lots 10 and 11, con. II. Central shaft SW1/4, S1/2 lot 10, con. II.
Map Reference: ODM 2075, Tisdale Township.

Geology: Basalts strike N55°E and dip 70°SE. Near the axis of the Hollinger anticline the lavas are intruded by a group of porphyry stocks the largest of which is the Pearl Lake porphyry. The porphyries are generally conformable with the folds in the enclosing rocks and plunge at 45° to 50°E. Veins are abundant in the Hollinger anticline between the Millerton, Pearl Lake and Acme porphyries. Most of the veins are in the basalts adjacent to the porphyries and a few veins are within the porphyries. The deposit is a composite vein zone 5,000 feet long, 3,000 feet wide and 2,000 feet deep. Individual veins vary greatly in width, small veins are 50 to 100 feet long and 2 to 3 feet wide but some veins are up to 1,000 feet in length. The average stoping width is about 10 feet which might consist of a vein 5 feet in width with a zone of stringers and mineralized wallrock adjacent to the vein. The shape of the veins varies from tabular, to lenticular, to sinuous or en echelon stringers. Vein No. 84 produced 1,869,065 tons at an average grade of 0.35 ounces per ton. Quartz and carbonate are the most abundant vein minerals accompanied by albite, tourmaline, chlorite, scheelite, pyrite, pyrrhotite, chalcopyrite, sphalerite, galena and tellurides. Pyrite occurs in the wallrock adjacent to the veins and gold occurs in veinlets in the darker coloured parts of the vein and fractures in the pyrite adjacent to the vein.

Economic Features: Production at the mine ceased at the end of March, 1968 due to exhaustion of commercial grade ore (The Financial Post Corporation Service, Hollinger Mines Limited, Revised January 27, 1969, p.3).

Ownership: Hollinger Mines Ltd.

History 1910-15: Central shaft 800 feet, Main shaft 800 feet, total development 10,805 feet on 100-, 200-, 300-, 425-, 550-, 675 and 800-foot levels. 30 stamp mill in 1911, cyanide mill of 300 tons per day in 1912; work by Hollinger Gold Mines Ltd.

1911-15: No. 9 shaft 825 feet, No. 10 shaft 388 feet, No. 11 shaft 419 feet, No. 12 shaft 179 feet, levels at 100, 200, 300, 425, 550, 675 and 800 feet, drifts 9,634 feet, crosscuts 3,820 feet, 10,486 tons of ore treated at the Hollinger mill, work by Acme Gold Mines Ltd.

1911-15: No. 6 shaft 394 feet, No. 7 shaft 170 feet, No. 8 shaft 45 feet, levels at 55, 150, 250 and 379 feet, 435 feet of drifting, 876 feet of crosscutting by Millerton Gold Mines Ltd.

1912-18: No. 1 shaft 110 feet, No. 2 shaft 100 feet, No. 3 shaft 624 feet, lateral work 7,862 feet on the 100-, 200-, 300-, 400- and 600-foot levels, cyanide mill of 150 tons per day started in 1915. From 1915 to 1918 27,182 ounces of gold, 4,195 ounces of silver valued at $564,984 recovered from 112,124 tons of ore (ODM Statistical Files, Schumacher Gold Mines Ltd.). Work from 1914 to 1918 by Schumacher Gold Mines Ltd.

1922-68: Numerous shafts, 380 miles of lateral workings, important shafts are No. 19 (Schumacher) shaft 3,954 feet, No. 25 shaft from 3,950 to 5,438 feet, No. 26 shaft 3,063 feet (main hoisting shaft), No. 27 shaft 2,750 feet to 5,293 feet. Mill capacity 8,000 tons per day for many years operated at 3,500 to 4,000 tons per day, now dismantled. Work by Hollinger Consolidated Gold Mines Ltd.

1963-68: Exploration and production from McIntyre 5,375-, 5,525- and 5,675-foot levels under lease from Hollinger, work by McIntyre Porcupine Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
Schumacher	1915-18	27,182	4,195	564,984	112,124	Nil
Hollinger	1910-68	19,327,691	4,240,751	567,272,156	65,778,234	182,165,325
Total		19,354,483	4,244,946	567,837,140	65,890,358	182,165,325

	WO_3 pounds	Total Value dollars
1940-53	428,357	748,485

(ODM Statistical Files, Schumacher Gold Mines Ltd., Hollinger Consolidated Gold Mines Ltd. ODM 1968, GR58, p.160).

References: OBM 1913, Vol. 22, pt.1, p.133
OBM 1916, Vol. 25, pt.1, p.90-97
OBM 1918, Vol. 27, pt.1, p.113
ODM 1923, Vol. 32, pt.6, p.51-56
ODM 1965, Vol. 75, p.41-43
ODM 1967, Vol. 77, p.33-34
ODM 1968, GR58, p.102-115.

McIntyre Mine (Producer)

Main Metals: Au, Ag, Cu.

Location: 1 mile east of Timmins, Tisdale Township, southwest part. Part of lots 6, 7, 8, 9, 10, con. II. III and IV; No. 11 (main) shaft NW1/4, N1/2 lot 9, con. II.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts have been intruded by porphyry stocks of Kenoran (Algoman) age. The Pearl Lake porphyry occupies the central part of the Hollinger anticline and the flows dip steeply away from the axial plane of the anticline. The general strike is N70°E and the plunge of geological bodies and the associated mineralization is 45°E.
The vein zone on the north side of the Pearl Lake porphyry is 5,000 feet long, 200 feet wide and 4,000 feet deep. Veins are also present on the south side of the Pearl Lake porphyry. No. 25 vein is 1,500 feet north of the Pearl Lake porphyry in an interflow tuff bed above the Gillies Lake porphyry. Veins along flow contacts persist for distances from 500 to 2,000 feet and have great vertical continuity. Veins in uniform basalt adjacent to the Pearl Lake porphyry are shorter. The average mining width is 10 feet. The veins consist mainly of quartz and carbonate with a pyritized zone in the wallrock adjacent to veins. Accessory vein minerals are albite, chlorite, tourmaline, scheelite, pyrite, pyrrhotite, sphalerite, galena and gold.

Economic Features: Ore reserves December 31, 1967 were 807,800 tons averaging 0.326 oz. gold per ton (Canadian Mines Handbook, 1968-69, p.217).

Ownership: McIntyre Porcupine Mines Ltd.

History: 1910-13: Shaft (McIntyre No. 6) to 673 feet, 2,816 feet of lateral work by Pearl Lake Gold Mines Ltd.
1911-12: Shaft (McIntyre No. 10) and another shaft each 200 feet deep, drive between the shafts on the 200-foot level 1,000 feet by Plenaurum Mines Ltd.
1911-12: Jupiter No. 1 shaft to 100 feet and Jupiter No. 2 (McIntyre No. 7) shaft to 400 feet, on 100-, 200- and 300-foot levels 1,850 feet of lateral work by Jupiter Mines Ltd.
1914: Jupiter No. 2 (McIntyre No. 7) shaft deepened to 475 feet and 1,312 feet of lateral work on the 300- and 400-foot levels by McKinley-Darragh-Savage Mines of Cobalt Ltd. under option with Jupiter Mines.
1935-37: Working from the 1,000-foot level of Coniaurum Mine 3,831 feet of crosscutting, underground drilling 8 holes 6,139 feet, surface drilling 9 holes 6,958 feet by Central Porcupine Mines Ltd.
1951-56: The 5,500-foot level of the Coniaurum Mine was extended 200 feet into the Central Porcupine property. The Central Porcupine subshaft was sunk 1,348 feet and(or) the 6,800-foot level. A crosscut driven 963 feet with 11 drill holes 14,701 feet by Central Porcupine Mines Ltd.
1911: McIntyre Porcupine Mines Ltd. began work on a single claim and part of the bed of Pearl Lake and gradually took over the adjoining

properties to the north and east. Shafts No. 5, 2,389 feet, No. 6, 3,015 feet, No. 11 (Main), 4,131 feet, No. 12, 3,875 to 7,111 feet, No. 14, 3,750 to 7,336 feet, No. 15, 6,825 to 8,094 feet. Total development to the end of 1968 for gold ore was 672,600 feet of drifting and 309,971 feet of crosscutting and total lateral work for development of copper ore has been 86,130 feet. Development to the end of 1967 is 189,543 feet of drifting and 48,220 feet of crosscutting.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1912-68	9,950,691	2,455,979	319,465,111	32,152,378	112,539,26

	Copper pounds	Total Value dollars	Ore Milled tons
1963-68	48,538,272	20,781,957	3,202,655

References: OBM 1913, Vol. 22, pt.1, p.130,131,133
OBM 1914, Vol. 23, pt.1, p.131
OBM 1915, Vol. 24, pt.1, p.137
ODM 1968, GR58, p.122-132
ODM 1968, Vol. 78, p.26-28.

Moneta Mine (Past Producer)

Main Metals: Au, Ag.

Location: Within the southern part of the town of Timmins, Tisdale Township. 8 claims, lot 12, con. I and II. Shaft on SE1/4, S1/2 lot 12, con. II.
Map Reference: ODM 2075, Tisdale Township.

Geology: On the north side of the Hollinger Main fault Keewatin basalts strike N15°E and dip 65° to 80°E. The mineralized zone is at and near a contact between pillowed lava interflow argillite and massive lava. Fractures extending diagonally across the contact form a breccia zone. The matrix of the breccia consists of quartz and carbonate with 13 percent pyrite and small amounts of pyrrhotite, chalcopyrite and sphalerite. This ore zone is up to 630 feet in length, 37 feet wide and is 525 feet deep with irregular pendants up to 935 feet.

Economic Features: Production was suspended in 1943 due to the exhaustion of known ore reserves (Survey of Mines 1944, p.101).

Ownership: Moneta Porcupine Mines Ltd. (controlled by Charter Oil Co.).

History: 1910: Surface work by Nova Scotia Mines of Cobalt Ltd.
1911: Diamond drilling, shaft sunk to 100 feet by Moneta Porcupine Mines Ltd.

1923: No. 2 shaft 81 feet, No. 3 shaft 59 feet, No. 4 shaft 120 feet, 125 feet of drifting from No. 2 shaft by Moneta Porcupine Mines Ltd.
1936: Surface drilling 10,590 feet, Main shaft 1,455 feet, levels at 150, 295, 400, 525, 675, 825, 975, 1,425 feet, total lateral work 19,715 feet.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1938-43	149,250	22,269	5,589,356	314,829	1,297,267

(ODM Statistical Files, Moneta Porcupine Mines Ltd.).
Additional dividends paid 1944, 1945, 1946, 1947, 1954 and 1964.

References: OBM 1915, Vol. 21, pt.1, p.156
ODM 1924, Vol. 33, pt.7, p.58
ODM 1937, Vol. 46, pt.1, p.181
ODM 1944, Vol. 53, pt.1, p.140-141
ODM 1968, GR58, p.134-138.

Paymaster Mine (Past Producer)

Main Metals: Au, Ag.

Location: 4 miles southeast of Timmins, Tisdale Township, southern part. Part of lots 5, 6 and 7, con. I; Deloro Township, claims HR1010, TRS776 (HR908), TRS881 (L0320), TRS936 (HS748), TRS937 (HS749), TRS938 (HS747), TRS975 (ME15), P7148, P7385 (ED98), P7860 (HR1085), P8281 (L0321), P8282 (L0322), P9932.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts strike N75°E and dip 65° to 80°N. In the eastern part of the property the Paymaster porphyry intrudes the basalts. The main vein zone is 2,000 feet long, 1,000 feet wide with a vertical depth of 3,000 feet. Vein material consists of quartz and carbonate with small amounts of sericite and scheelite. On the 1,200-foot level an ore shoot on No. 3 vein was 182 feet long, 3.6 feet wide and averaged $18.05 (0.87 ounces gold) per ton. No. 36 ore zone contains very little vein material and contains 10 percent sulphides mainly pyrrhotite and pyrite with a small amount of chalcopyrite. It is 830 feet long, 8 feet wide and 600 feet deep.

Economic Features: Ore reserves June 30, 1966.

Location	Tons	Gold Content per ton ounces	Remarks
Above 4,375-foot level	88,500	0.232	
Between 4,375- and 6,025-foot levels	295,300	0.256	No.36 ore zone
Total	383,800		
Average		0.250	

(ODM 1966, Vol. 76, p.58).

Ownership: Associated Porcupine Mines Ltd.

History: 1910: Claims TRS776 (HR908), TRS975 (ME15), shaft 83 feet, 40 feet of crosscutting by Standard Gold Mines Ltd.
1910-11: No. 1 shaft 123 feet, No. 2 shaft 28 feet, No. 3 shaft 114 feet, No. 4 shaft 76 feet, 204 feet of drifting on 105-foot level; No. 1 shaft by West Dome Mines Ltd.
1915-28: No. 1 (Paymaster No. 6) shaft 1,350 feet, No. 2 shaft 30 feet, No. 3 shaft 595 feet, No. 4 shaft 113 feet. At No. 1 shaft levels at 120, 180, 300, 400, 500, 600, 750, 900, 1,050, 1,200, 1,325 feet and 18,866 feet of drifting and 7,365 feet of crosscutting. Mill operated 1915-1930; work by Consolidated West Dome Mines Ltd. and West Dome Lake Gold Mines Ltd.
1930-66: No. 5 (Main) shaft 4,462 feet, No. 2 winze 2,046 feet to 4,202 feet, No. 6 winze 4,059 feet to 6,157 feet, 9 shafts, 6 winzes, 197,294 feet of drifting, 82,577 feet of crosscutting, mill treated 365 tons per day; work by Paymaster Consolidated Mines Ltd. and Porcupine Paymaster Ltd. The mine closed April 1966.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1915-66	1,192,206	325,088	42,146,614	5,607,402	1,251,219

(ODM Statistical Files, Dome Lake (West Dome Lake, Consolidated West Dome Lake), Paymaster (Paymaster Consolidated Mines Ltd., Porcupine Paymaster Ltd.).

References: OBM 1912, Vol. 21, pt.1, p.158
ODM 1924, Vol. 33, pt.2, p.76-78,80
ODM 1929, Vol. 38, pt.1, p.153-154
ODM 1968, GR58, p.138-141
ODM 1966, Vol. 76, p.56-59.

Preston Mine (Past Producer)

Main Metals: Au, Ag.

Location: 2-1/2 miles southwest of South Porcupine, Tisdale Township, southeast part. 12 claims part of lot 3 and 4, con. I. No. 2 (Main) shaft claim P13151, NE1/4, S1/2 lot 4, con. I; Deloro Township 7 adjoining claims.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts strike N25°W and dip 40° to 55°E. The Preston porphyry, Centre porphyry and West porphyry are more or less tabular sills. Veins are present within the Preston and West porphyries and stockworks occur in association with porphyry and volcanic rocks. The veins consist of quartz, ankerite and tourmaline. Pyrite, pyrrhotite, chalcopyrite, sphalerite, galena and native gold are present in the veins. Individual veins are up to 6 feet wide, 700 feet long and extend for 600 feet vertically. Sulphide ore which is a continuation up dip from the Paymaster sulphide zone is located in the western (Midcamp) part of the property. Pyrite is the dominant sulphide with the zone averaging 6 feet in width and extending vertically for 1,250 feet.

Economic Features: The property was in operation March 1939 to June 1968 when production ceased due to exhaustion of known ore (Survey of Mines 1969, p.141).

Ownership: Preston Mines Ltd.

History: 1913-15: Porcupine Porphyry Hill Gold Mines Ltd. working in Deloro Township. See separate property description Porphyry Hill Prospect.
1914-15: Porcupine Pet Gold Mines Ltd. working in Deloro Township. See separate property description Porcupine Pet Prospect.
1923-28: New York Porcupine Gold Mines Ltd. carried out underground development, milling etc. on claim in Tisdale Township. See separate property description New York Porcupine Prospect.
1913-15 and 1949-54: Surface work, underground drilling and workings from Paymaster and Preston East Dome Mines by South-Dome Mines Ltd. and Midcamp Mines Ltd. See separate property description Midcamp Prospect.
1936-68: Shaft No. 1 inclined 63° to 95 feet, No. 2 to 2,388 feet, No. 3 from 2,166 feet to 4,170 feet, No. 4 to 400 feet, 141,379 feet of drifts, 167,321 feet of crosscuts, underground drilling 12,921 feet by Preston East Dome Mines Ltd. and Preston Mines Ltd.

Production	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
	1938-68	1,539,355	177,351	57,029,734	6,284,405	22,934,040

(ODM Statistical Files, Preston East Dome Mines Ltd.)

References: ODM 1937, Vol. 46, pt.1, p.193-194
ODM 1968, Vol. 78, p.29-31
ODM 1968, GR58, p.143-151
Survey of Mines 1969, p.141-142.

Preston Mine (Midcamp) (Past Producer)

Main Metals: Au.

Location: 4 miles southeast of Timmins, Tisdale Township, southeast part. S1/2 lot 5, con. I and SE1/4, S1/2 lot 6, con. I; Deloro Township 7 adjoining claims HF393, L0324 (P8540), L0325, L0327 (P8286), L0328 (P8287).
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts strike N75°E and dip 65° to 85°N. The Preston West porphyry and smaller porphyry bodies intrude the lavas. Narrow quartz veins are present in porphyry. A vein 5 inches in width on the north side of the Tisdale-Ogden boundary contained abundant native gold. The upward extension of the Paymaster No. 31 vein was explored from underground.

Ownership: Preston Mines Ltd.

History: 1913-15: Porcupine Pet and Porphyry Hill properties in Deloro Township were under development. See separate descriptions.
1923: Shaft 25 feet deep in Tisdale Township adjacent to the south boundary by South-Dome Mines Ltd.
1949-54: Underground work from the Preston East Dome 9th (1,050-foot), 12th (1,425-foot) and 23rd (3,846-foot) levels and Paymaster 10th (1,050-foot), 20th (2,075-foot) and 25th (2,575-foot) levels; 5,027 feet of lateral work, 186 holes, 63,492 feet of underground drilling by Midcamp Mines Ltd.
1959-68: Underground mining in progress as part of the Preston Mine.

References: ODM 1924, Vol. 33, pt.2, p.78
ODM 1950, Vol. 59, pt.2, p.68
ODM 1951, Vol. 60, pt.2, p.54
ODM 1955, Vol..64, pt.2, p.63-64.

Preston Mine (New York) (Past Producer)

Main Metals: Au, Ag.

Location: 5 miles southeast of Timmins, Tisdale Township, southeast part. SW1/4, S1/2 lot 4, con. I.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts strike northeast. A porphyry dike strikes east and on the 200-foot level a quartz vein within the porphyry contained ore grade mineralization for a length of 100 feet and a width of 25 feet.

History: 1923: New York Porcupine shaft sunk 30 feet, trenching, 11 drill holes 6,528 feet by New York Porcupine Mines Ltd.
1926-28: New York Porcupine shaft deepened to 272 feet, lateral work on the 125-foot level, 325 feet, and on the 250-foot level, 4,000 feet. No. 2 winze 700 feet south of No. 1 shaft inclined 70°S, sunk to 90 feet below the 250-foot level by New York Porcupine Mines Ltd.
1933: 3,000 tons of ore from the dump was treated at the Marbuan mill by Buffalo Ankerite Mines Ltd. under a lease from A.G. Lyons trustee for New York Porcupine Gold Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1933	153	20	3,164	2,800

(ODM 1934, Vol. 43, pt.1, p.7)

References: ODM 1927, Vol. 36, pt.1, p.127
OBM 1918, Vol. 27, pt.1, p.134

ODM 1934, Vol. 43, pt.1, p.94
ODM 1935, Vol. 44, pt.1, p.93.

Tisdale Ankerite Mine (Past Producer)

Main Metals: Au.

Location: West of Paymaster Mine and extending north of the south boundary of Tisdale Township. Holding consists of 8 claims part of lots 7 and 8, con. I and II.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts, containing pillowed and uniform phases have been intruded by porphyry, serpentinized ultramafic rock and diabase. The ore zone strikes east and occurs near the north side of the serpentinite. Three ore shoots with a combined length of 395 feet and an average width of 4.7 feet were developed on the 1,550-foot level. Two ore shoots, 45 feet long, averaging 5.4 feet in width were developed on the 2,500-foot level. The average grade was 0.20 ounces per ton.

Ownership: Tisdale Ankerite Mines Ltd.

History: 1938: 14,000 feet surface drilling by Hollinger.
1951-52: Underground levels at 1,500 feet and 2,500 feet driven from Buffalo Ankerite Mine. 2,221 feet drifting, 1,626 feet crosscutting, 244 feet of raises and 22,611 feet underground drilling was done.

Production: Ore was hauled to Buffalo Ankerite shaft for treatment in the Buffalo Ankerite mill. 14,655 tons of ore milled in 1952 produced 2,236 ounces gold valued at $78,808. The ore was refractory and recovery was 83.64 percent.

References: ODM 1968, GR58, p.152-153.

Triumph Prospect

Main Metals: Au.

Location: A half mile south of Schumacher, Tisdale Township, southwestern part. Four claims part of con. I and II, lots 8 and 9. Shaft in SE1/4, S1/2, lot 9, con. II.

Geology: The property is underlain by Keewatin basalts which strike N65°W and dip about 70°NE. The eastern section of the Alma vein trends N80°E for 550 feet and dips 75°N. It is generally from 2 to 8 inches in width but a folded section is 20 feet wide. In the folded part of the vein there is a length of 120 feet where visible gold is common. The uncut average of this 120-foot length of vein is 0.60 ounces across 2.2 feet.

Ownership: August Porcupine Gold Mines Ltd.

History: 1916-17: Triumph Gold Mines Limited sank a shaft inclined at 62°N to 315 feet. 100 feet of lateral work at 100-foot level and 210 feet lateral work on the 300-foot level.
1923-24: Porcupine Goldacre Mines Ltd. - 7 drill holes 8,300 feet.
1945: August Porcupine Gold Mines Ltd., did 4,939 feet of surface drilling.
1966: A deep diamond drill hole was completed.

References: ODM 1968, GR58, p.74-75
OBM 1916, Vol. 25, pt.1, p.103
ODM 1924, Vol. 33, pt.7, p.63.

Vipond Mine (Past Producer)

Main Metals: Au, Ag.

Location: 1-1/2 miles southeast of Timmins, Tisdale Township, southwest part. Part of lots 9, 10 and 11, con. I and II, includes Crown Mine (see separate description), shafts S1/2 lot 10, con. II.
Map Reference: ODM 2075, Tisdale Township.

Geology: Keewatin basalts strike in a northwesterly, northerly or northeasterly direction and the dip averages 50° to 60°E. The vein systems are the Vipond, North-Thomson and Central and the wallrocks of veins containing oreshoots contain pyrite, carbonate and sericite. Ore shoots in the Central veins system are from 200 to 250 feet long, 15 to 20 feet wide and average 0.72 to 0.96 ounces of gold per ton.

Economic Features: On the 1,450-foot level a crosscut was put out 3,000 feet to the southwest to explore the Inspiration section. From the end of the crosscut drilling was carried out to explore to a depth of 2,500 feet but no new ore was located (Survey of Mines 1942-43, p.110).

Ownership: Hollinger Mines Ltd.

History: 1911-16: Vipond shaft 400 feet, winze from 400-foot level to 520 feet, 7,076 feet of lateral work, mill of 150 tons per day by the Porcupine Vipond Mines Ltd.
1915-16: North-Thomson shaft 600 feet, levels at 50, 100, 200, 300, 400, 500 and 600 feet, 8,076 feet of lateral work by the North-Thomson Associated Gold Mines Ltd. and the North-Thomson Gold Mines Ltd.
1922-32: North-Thomson shaft 1,450 feet deep, levels below 600 feet are at 733, 866, 1,000, 1,200 and 1,450 feet, 37,965 feet of lateral work, 75,497 feet of underground drilling by Vipond Consolidated Mines Ltd.
1933-35: Workings extended to 99,288 feet of lateral work, mill 300 tons per day operated by Anglo-Huronian Ltd.
1937-39: 4,310 feet of lateral work, 18 surface drill holes 7,143 feet, 172 underground drill holes 39,230 feet by Mace Gold Mines Ltd.

1940-42: Hollinger 1,700-, 2,750-, 3,350- and 3,950-foot levels extended into the property for 3,173 feet of lateral work, 6 surface drill holes 1,300 feet and 67 underground drill holes 16,066 feet, 1,417 tons of ore mined by Hollinger Consolidated Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1911-41	414,367	59,486	9,827,448	1,565,218	67,500

(ODM Statistical File, Vipond Porcupine Mines Ltd., Anglo-Huronian Ltd., Mace Gold Mines Ltd.).
Note: An additional 1,417 tons were treated at the Hollinger mill.

References: OBM 1911, Vol. 20, pt.1, p.103
OBM 1916, Vol. 25, pt.1, p.101-102
OBM 1917, Vol. 26, pt.1, p.105-106
ODM 1933, Vol. 42, pt.1, p.94-96
ODM 1937, Vol. 46, pt.1, p.95-96
ODM 1938, Vol. 47, pt.1, p.160-161
ODM 1943, Vol. 52, pt.1, p.144
ODM 1968, GR58, p.115-118.

TULLY TOWNSHIP

McIntyre Prospect

Main Metals: Au, Ag.

Location: Nineteen miles northeast of Timmins, Tully Township, southwest part. Group of 14 claims, drilling on N1/2 lot 11, con. II.
Map Reference: ODM 2046, Timmins-Kirkland Lake.

Geology: A band of Keewatin tuffaceous sediments possibly andesite strikes east and dips vertical or steeply north. This band is 90 feet wide lying between peridotite on the south and argillite and greywacke on the north. The tuffaceous band contains a network of quartz-carbonate threads and veinlets with native gold visible in some of the veinlets. Fine-grained pyrite, pyrrhotite, chalcopyrite, galena, sphalerite and arsenopyrite are disseminated throughout the rock. The gold-bearing zone has been traced by drilling for a length of 1,100 feet with the better grade sections up to 11.9 feet wide.

Economic Features: 835,000 tons using a 20 percent dilution factor were indicated by drilling to a depth of 500 feet. Gold content was erratic and silver content is low. The best intersection was 1.89 ounces of gold per ton over a core length of 20 feet (Northern Miner February 12, 1970, p.141, and ODMNA Assessment Work Library, Tully Township, Rept. 16).

Ownership: Cromarty Exploration Company Ltd.

History: 1964-68: Aeroelectromagnetic survey, ground magnetic and electromagnetic surveys by Nickel Offsets Ltd.
1969-70: 25 inclined surface drill holes 14,675 feet and a mill test by McIntyre Porcupine Mines Ltd.

References: Northern Miner May 1, 1969, p.475, 476
Northern Miner February 12, 1970, p.141
ODM MP35, p.22-24
Assessment Work Library, Toronto, Tully Township Rept. 16
Resident Geologist's files, Timmins, T1468.

Texmont Prospect

Main Metals: Au.

Location: 20 miles northeast of Timmins, Tully Township, southwest part. S1/2 of S1/2 lot 12, con. III.
Map Reference: ODM 2046, Timmins-Kirkland Lake Sheet.

Geology: Keewatin rhyolitic tuffs and flows strike N70°E, dip vertically, are about 400 feet wide, and lie between andesite-dacite on the north and peridotite on the south. Gold is associated with zones of silicification in the rhyolitic tuff containing marcasite, pyrite and graphite. The known mineralization is 500 feet long, 10 feet wide and averages 0.22 ounces of gold per ton.

Ownership: Texmont Mines Ltd.

History: 1965: Magnetic and electromagnetic surveys by Patino Mining Company Ltd.
1968-69: Seven inclined surface drill holes 3,537 feet by Texmont Mines Ltd.

References: Northern Miner March 6, 1969, p.217
ODM MP35, p.24-25
Assessment Work Library, Toronto, Tully Township Rept. 18.

TURNBULL TOWNSHIP

De Santis Prospect

Main Metals: Au.

Location: 17 miles west of Timmins, Turnbull Township, southwest part. Claim P8604 etc.

Map Reference: ODM 34f, Kamiskotia Gold area; ODM P.21, Turnbull Township.

Geology: A granite body is intrusive into a gabbro stock and in turn is cut by a diabase dike. The vein strikes N13°W, is 170 feet long, up to five feet wide and is about six feet east of the diabase and parallel to the contact. Vein minerals are quartz, pyrite, chalcopyrite and native gold.

History: 1920-24: Surface exploration, test pit by Peter De Santis.
1927: Shaft to 150 feet, at 125-foot level 45 feet of crosscutting by De Santis Mining Company Ltd.
1928: On the 125-foot level drifting and crosscutting 1,000 feet, small mill operated, work by De Santis Gold Mining Company Ltd.

Production:

Year	Gold ounces	Total Value dollars
1926	13	146

(ODM Statistical Files, De Santis Porcupine Mines Ltd. and ODM 1929, Vol. 38, pt.1, p.96-97).

References: ODM 1925, Vol. 34, pt.6, p.59-60
ODM 1927, Vol. 36, pt.1, p.101
ODM 1929, Vol. 38, pt.1, p.96-97.

WHITNEY TOWNSHIP

Banner Prospect

Main Metals: Au.

Location: 2-1/2 miles north of South Porcupine, Whitney Township, northwest part. 13 claims in Whitney Township, part of lots 11 and 12, con. V, shaft SE1/4 S1/2 lot 11, con. V.
Map Reference: ODM P.9, Whitney Township, northwest part.

Geology: Keewatin basalts strike S80°E. The vein strikes east, was 2 to 6 feet wide and was exposed in an open cut for 80 feet. Vein material consists of quartz with streaks of tourmaline.

Economic Features: Underground drilling from the 650-foot level failed to show commercial ore (Survey of Mines 1966, p.143).

History: 1910-12: Shaft to 100 feet, on 80-foot level 420 feet of lateral work by Scottish Ontario Gold Mining Syndicate Ltd. and Scottish Ontario Gold Mining Company Ltd.
1927-28: Open cut 80 feet long, 2 to 4 feet wide and 5 to 12 feet deep, small mill operated by P.N.B. Syndicate.
1928-31: Shaft deepened to 320 feet, levels at 40, 100 and 300 feet, 2,480 feet of lateral work by Canusa Mining and Exploration Company Ltd.

1951-53: 650-foot level from the Reef Mine extended 1,368 feet into the property, 13 holes drilled from this crosscut 9,296 feet, work by Broulan Reef Mines Limited for Banner Porcupine Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1927, 1928, 1933, 1935	670	124	14,840	315	Nil

(ODM Statistical Files, Scottish-Ontario Syndicate (Canusa Gold Mines Ltd.).

References: OBM 1910, Vol. 19, pt.1, p.121
OBM 1912, Vol. 21, pt.1, p.157
ODM 1928, Vol. 37, pt.1, p.136-137
ODM 1929, Vol. 38, pt.1, p.90-91
ODM 1954, Vol. 63, pt.2, p.8.

Bonetal Mine (Past Producer)

Main Metals: Au, Ag.

Location: 4 miles northeast of South Porcupine, Whitney Township, originally held 8 claims all of lot 8, con. V except the NW1/4 of the N1/2, also the SW1/4 of S1/2 lot 7, con. V. Later added claim P13087 (NE1/4 S1/2 lot 9, con. V) which subsequently was transferred to Bonwhit Gold Mines Ltd. Bonetal shaft claim P18523 (SE1/4 N1/2 lot 8, con. V).
Map Reference: ODM P.9, Whitney Township, northwest part.

Geology: From drilling and underground workings Keewatin basalts are known to strike in an easterly direction. Near the property boundary these rocks are truncated by Timiskaming argillites which strike northeast and dip steeply northwest. The No. 1 (South or Sedimentary) ore zone is the western extension of the Hallnor ore zone which dips southward across the contact from basalt into argillite at a depth of about 350 feet. The No. 2 (North or Greenstone) ore zone is an irregular stringer zone entirely within a band of basalt described as "chicken fed" type.

Economic Features: No. 1 ore zone was traced by surface drilling for 640 feet and underground development gave the following results (Survey of Mines 1941-42, p.99):

Level feet	Drift	Length feet	Width feet	Gold Content ounces per ton
175	210E	113	6.3	0.326
175	210W	187.3	7.0	0.196
275	210E	258	7.4	0.19
275	82E	80	6.8	0.15
400	210W	140.7	5.8	0.22
512	210W	117	7.2	0.22

No. 2 ore zone is 1,150 feet long by 50 to 240 feet wide. On the 400-foot level a lenticular orebody 75 feet long by 40 feet wide averaged 0.14 ounces of gold per ton. This zone was considered to have large tonnage possibilities (Survey of Mines 1942-43, p.99). The mine was closed in 1951 as all known sources of ore in this area were exhausted (ODM 1951, Vol. 61, pt.2, p.8). Ore on the Drew claim was taken over by Bonwhit Mines Ltd.

Ownership: Broulan Reef Mines Ltd.

History: 1938: Property developed by 50 feet of drifting on Hallnor 361-foot level and 360 feet of drifting and crosscutting on the Hallnor 561-foot level. Work under an agreement by Noranda Mines Ltd. and Bonetal Mines Ltd.
1940-51: Shaft to 571 feet, levels at 175, 275, 400 and 512 feet from Bonetal shaft. On the 512-foot level connected with the Bonwhit workings. In 1944 the Hallnor 2,160-foot level was extended for 613 feet into the Bonetal property. Total drifting 8,933 feet, crosscutting 2,474 feet and a large amount of underground drilling. Ore was treated at the Broulan Reef Mill. Work by Bonetal Gold Mines Ltd.
1966: Shaft and workings reopened, sampling etc. by Broulan Reef Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1941-51	51,510	4,180	1,921,134	352,254	Nil

References: ODM 1940, Vol. 49, pt.1, p.87
Survey of Mines 1942-43, p.99
ODM 1951, Vol. 60, pt.2, p.7
Survey of Mines 1952, p.338
Survey of Mines 1966, p.143-144.

Bonwhit Mine (Past Producer)

Main Metals: Au.

Location: 4 miles northeast of South Porcupine, Whitney Township, NE1/4 S1/2 lot 9, con. V.
Map Reference: ODM P.9, Whitney Township, northwest part.

Geology: Keewatin basalts and rhyolite strike east across the property.

Economic Features: Mineralized zone (Survey of Mines 1955, p.177).

Level feet	Length feet	Width feet	Gold Content ounces per ton
650	230	10	2.09
1,120	245	8	0.50

Ownership: Broulan Reef Mines Ltd.

History: 1947-51: Surface drilling, crosscut on 275-foot level for 1,000 feet west from Bonetal workings, the 970-foot level of Porcupine Reef Mines Limited extended 12,000 feet east into property, work by Bonetal Gold Mines Ltd. with funds advanced by Broulan Porcupine Mines Ltd.
1951-54: Developed by extension of drifts from the Porcupine Reef Mines Ltd. workings on the 500-, 650-, 800-, 970-, 1,120- and 1,270-foot levels with 6,094 feet of drifting and 818 feet of crosscutting, and in 1954, 64 underground drill holes 8,267 feet. Work by Bonwhit Mines Ltd. Milling at Broulan Reef Mines Ltd. mill.
1955: Operated as part of Broulan Reef Mines Ltd. with additional levels at 1,420, 1,520 and 1,870 feet.

Production:

Years	Gold ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1951-54	67,940	2,400,789	200,555	Nil

Note: Later production included with Broulan Reef Mines Ltd.

References: Survey of Mines 1949, p.155
Survey of Mines 1955, p.177
ODM 1955, Vol. 64, pt.2, p.8-9.

Broulan Mine (Past Producer)

Main Metals: Au, Ag.

Location: 3 miles northeast of South Porcupine, Whitney Township, northeast part. Broulan shaft and workings NW1/4 S1/2 lot 6, con. V.
Map Reference: ODM P.10, Whitney Township, northeast part.

Geology: Timiskaming conglomerate, arkose and greywacke strike N70°E and dip 65°N. Mineralization occurs in a zone 750 feet long by 300 feet wide. Individual ore shoots range from 50 to 450 feet in length and from 3 to 120 feet wide. Breccia zones dip steeply south and contain 15 to 25 percent quartz carbonate stringers with most of the ore in thin bedded slate and greywacke. Metallic minerals 2 to 3 percent of the ore and consist mainly of pyrite with small amounts of pyrrhotite, sphalerite, galena, chalcopyrite and native gold.

History: 1936-38: Surface drilling 28,730 feet by Broulan Porcupine Mines Ltd.
1938-50: Broulan shaft 675 feet, No. 1 winze from 523-foot level to 379 feet, levels at 173, 273, 398, 523 and 650 feet, total drifting 16,427 feet crosscutting 3,912 feet, mill capacity 550 tons per day; work by Broulan Porcupine Mines Ltd.
1951-53: Stoping and milling by Broulan Reef Mines Ltd.

tion:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
	1939-53	243,757	26,647	9,202,449	1,146,059	1,360,592

Note: Dividends for 1952 and 1953 combined with Broulan Reef Mines Ltd.

(ODM Statistical Files, Broulan Porcupine Mines Ltd., and ODM Rept. of operations, Broulan Reef Mines Ltd.).

References: ODM 1939, Vol. 48, pt.1, p.85-86
Structural Geol. Canadian Ore Deposits, CIMM 1948, Jubilee Vol., p.554-558
ODM 1950, Vol. 60, pt.2, p.8-9
ODM 1954, Vol. 63, pt.2, p.11.

Hallnor Mine (Producer)

Main Metals: Au, Ag.

Location: 4 miles northeast of South Porcupine, Whitney Township. N1/2 lot 7, con. V, and S1/2 lot 7, con. VI. Hallnor shaft SE1/4 N1/2 lot 7, con. V.
Map Reference: ODM P.9, Whitney Township, northwest part.

Geology: Keewatin basalts trend southeast and zones of the basalt up to 400 feet in width are strongly carbonatized. The lavas are truncated by Timiskaming argillite which strikes N70°E and dips 75°N. The mineralized zone dips 70°S across the contact from the lavas into sediments. The vein zone is 1,800 feet long, 10 to 80 feet wide and extends to a depth of 4,000 feet. In the upper levels the vein consists of calcite, quartz, with small amounts of pyrite, sphalerite and native gold. At greater depths the mineralized zones consist of sericitic alteration with fine pyrite and pyrrhotite and scattered quartz lenses. The highest grade of ore was in the calcite-quartz vein type but the width and tonnages are greater in the alteration type. The ore lengths developed on the 210-, 360- and 560-foot levels were 305, 1,190 and 1,320 feet respectively (Canadian Mines Handbook 1939, p.113-114).

Economic Features:

Levels	Ore Reserves tons	Gold Content ounces
Above the 8th (1,400-foot) level	21,900	0.23
18th (2,750-foot) to 22nd (3,350-foot) level	3,000	0.23
22nd (3,350-foot) to 28th (4,300-foot) level	174,000	0.42
Total	199,000	
Average		0.40

Reserves January 1968 (ODM 1967, Vol. 77, p.32).

Ownership: Hallnor Mines Ltd. with 95.6 percent interest held by Noranda Mines Ltd.

History: Surface work and 5,553 feet of diamond drilling by Noranda Mines Limited under an option from Porcupine Quartet Gold Syndicate. 1936-68: Surface drilling 6,061 feet, No. 1 (main) shaft 3,477 feet, No. 3 shaft from 3,198 feet to 5,066 feet, 2,230-foot winze inclined 45° from 3,354 to 3,742 feet, levels at 210, 360, 560, 760, 960, 1,110, 1,260, 1,400 (8th), 1,550, 1,850, 2,000, 2,150, 2,300, 2,450, 2,600, 2,750 (18th), 2,900, 3,050, 3,200, 3,350 (22nd), 3,500, 3,700, 3,850, 4,000, 4,150 and 4,300 (28th) feet, total drifting 75,639 feet, crosscutting 24,673 feet. Mill capacity 400 tons per day. Work by Hallnor Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
	1938-68	1,473,356	108,401	53,958,873	3,743,855	15,640,000

References: ODM 1937, Vol. 46, pt.1, p.141
Canadian Mines Handbook 1939, p.113-114
Structural Geol. Canadian Ore Deposits, CIMM 1948, Jubilee Vol., p.547-553
ODM 1968, Vol. 78, p.14-16.

Hoyle Mine (Past Producer)

Main Metals: Au, Ag.

Location: 6-1/2 miles northeast of South Porcupine, Whitney Township. Part of lots 1 and 2, con. V and VI. Hoyle shaft NW1/4 S1/2 lot 2, con. VI. Map Reference: ODM P.10, Whitney Township, northeast part.

Geology: Keewatin basalts strike east and are overlain by Timiskaming agglomerate, argillite, conglomerate and greywacke. The sediments strike N70°E and a zone of strongly carbonatized rocks about 100 feet in width are present near the volcanic-sedimentary contact. Fracture zones in the Pamour conglomerate were the eastern extension of this type of mineralization at Pamour. Zones of mineralization are 500 feet long, up to 37 feet wide and persist vertically for 600 feet.

Economic Features: Ore reserves December 1947 were reported as 1,071,974 tons containing 0.105 ounces of gold per ton (Survey of Mines 1950, p.165). Operations were suspended in January 1949 as Pamour Porcupine Mines Limited could not continue custom milling the ore from the Hoyle Mine.

Ownership: Falconbridge Nickel Mines Ltd.

History: 1935-36: Surface drilling 24,169 feet, Hoyle shaft 259 feet, level at 220 feet, 1,550 feet of drifting, 809 feet of crosscutting and 2,759 feet of underground drilling. Work by Hollinger Consolidated Gold Mines Ltd.

1937: Surface drilling 15,131 feet by Hoyle Mines Ltd.
1938-43: Hoyle shaft to 1,800 feet, levels at 200, 400, 600, 800, 900, 1,000, 1,200 and 1,800 feet, drifting 11,167 feet, crosscutting 2,934 feet, mill of 600 tons per day destroyed by 1943. Work by Hoyle Gold Mines Ltd.
1945-48: Total development increased to 14,090 feet, crosscutting 3,124 feet, custom milling at Pamour mill at approximately 300 tons per day. Work by Hoyle Mining Company Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1941-44					
1946-49	71,843	6,741	2,689,438	725,494	Nil

(ODM Statistical Files, Hoyle Gold Mines Ltd.).

References: ODM 1938, Vol. 47, pt.1, p.135-136
ODM 1939, Vol. 48, pt.1, p.127-128
ODM 1944, Vol. 53, pt.1, p.109
ODM 1949, Vol. 58, pt.2, p.34
Survey of Mines 1950, p.164-165.

Hugh-Pam Mine (Past Producer)

Main Metals: Au, Ag.

Location: 2-1/2 miles northeast of South Porcupine, Whitney Township. Con. IV, N1/2 of N1/2 lot 9, SW1/4 of N1/2 lot 9, N1/2 of lot 10, con. V, S1/2 lot 9, S1/2 lot 10 and NW1/4 of S1/2 lot 10. Hughes shaft SE1/4 of S1/2 lot 11, con. V, Mulholland shaft SW1/4 of S1/2 lot 11, con. V.
Map Reference: ODM P.9, Whitney Township, northwest part.

Geology: Keewatin basalts strike east and are truncated by Timiskaming conglomerate, argillite and greywacke. The orebodies were a western extension of the Reef Mine zone and as developed on the 200-, 500- and 650-foot levels had a combined length of 622 feet, average width 8 feet and an uncut average of 0.40 ounces of gold per ton (Survey of Mines 1953, p.174). Surface drilling indicated mineralization in the Timiskaming conglomerate for 1,100 feet in length, 40 feet wide and averaging 0.12 ounces of gold per ton (Survey of Mines 1949, p.171).

Economic Features: Operations were suspended in 1965 when the known ore was exhausted (Canadian Mines Handbook 1967-68, p.163-164).

Ownership: Hugh-Pam Porcupine Mines Ltd.

History: 1911: Mulholland shaft to 200 feet, levels at 90 and 200 feet, 400 feet of drifting work by Mulholland Mines Company Ltd.
1912: Hughes shaft to 200 feet, winze inclined 70° from the 200- to 318-foot level, levels at 100, 150 and 200 feet, lateral work 335 feet, 2-stamp mill. Work by Hughes Porcupine Mines Ltd.

1936-37: Hughes and Mulholland shafts and workings dewatered and sampled, surface drilling 18,647 feet. Work by Hugh-Pam Porcupine Mines Ltd.
1948-65: No. 2 winze from 2,500 feet to 2,628 feet, extension of Reef Mine levels 350, 500, 650, 800, 970, 1,120, 1,270, 1,420, 1,570, 1,720, 1,870, 2,050, 2,200, 2,350, 2,500 and 2,600 feet, total drifting 20,178 feet, crosscutting 3,189 feet, work by Hugh-Pam Porcupine Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1926, 1948-65	119,604	-	4,179,974	636,751	79,988

(ODM Statistical Files, Hugh-Pam Porcupine Mines Ltd.).

References: OBM 1912, Vol. 21, pt.1, p.247; pt.1, p.157
OBM 1913, Vol. 22, pt.1, p.130
ODM 1937, Vol. 46, pt.1, p.150
ODM 1965, Vol. 75, p.163-164.

North Whitney Prospect

Main Metals: Au.

Location: 4-1/2 miles northwest of South Porcupine. 7 claims con. VI, W1/2 of S1/2 lot 5, E1/2 of S1/2 lot 6 etc. Shaft NW1/4 of S1/2 lot 6, con. VI.
Map Reference: ODM P.10, Whitney Township, northeast part.

Geology: Keewatin basalts and sediments strike in an easterly direction and are intruded by a band of serpentinite about 500 feet in width. On the northern side of the serpentinite a band of carbonatized basalt 40 feet wide strikes N60°W. Quartz stringers in the carbonatized rocks contain pyrite and native gold. On the 225-foot level this zone was 35 feet wide and values ranging from 0.24 to 0.40 ounces of gold per ton were obtained over core lengths of 5 feet (Survey of Mines 1941-42, p.115).

Ownership: Pamour Porcupine Mines Ltd.

History: 1916,1919,1921: Surface drilling 10,000 feet, Keora No. 1 shaft inclined 60°N to 48 feet with 115 feet of lateral workings; Keora No. 2 shaft 110 feet with 224 feet of lateral workings; Keora No. 3 shaft to 250 feet at 225-foot level, 390 feet of crosscutting work by Porcupine Keora Gold Mines Ltd.
1938-40: 9 surface drill holes 5,109 feet, 15 underground drill holes 6,738 feet, on 225-foot level total drifting 1,319 feet and crosscutting 1,261 feet. Work by North Whitney Mines Ltd.

References: OBM 1918, Vol. 27, pt.1, p.109
ODM 1920, Vol. 29, pt.1, p.88
ODM 1922, Vol. 31, pt.10, p.39
ODM 1924, Vol. 33, pt.2, p.82
ODM 1941, Vol. 50, pt.1, p.101-102
Survey of Mines 1941-42, p.115
ODM 1967, Vol. 77, p.47.

Pamour Mine (Producer)

Main Metals: Au, Ag.

Location: 4-1/2 miles northeast of South Porcupine, Whitney Township. 33 claims part of lots 3, 4, 5, con. V and VI, No. 3 (Pamour). Shaft NW1/4 of N1/2 lot 4, con. V.
Map Reference: ODM P.10, Whitney Township, northeast part.

Geology: Keewatin basalts are associated with strongly carbonatized rocks and talcose rocks. Timiskaming agglomerate, greywacke and conglomerate overlie the older rocks. The sedimentary rocks strike N70°E and the dip is 70°N. Quartz veins are found in the western part of the mine mainly in greywacke and basalt where they make a small angle to the bedding. The veins are up to 1,500 feet long, vary in width from 0.5 to 12 feet, and may persist vertically for up to 1,200 feet. Fracture zones in Pamour conglomerate form orebodies up to 600 feet long, 80 feet wide with a vertical depth of 600 feet. Within these zones the veins strike N20° to 45°E, dip 10° to 70°SE and are spaced one to five feet apart. Generally the veins are parallel and vary in width from 0.1 to 4 feet. Pyrite is the most abundant sulphide with small amounts of pyrrhotite, sphalerite, arsenopyrite and native gold. The rocks are bleached near the veins and contain disseminated pyrite.

Ore Reserves:

Mine Location	Reserves	Gold Content ounces per ton
East Section	1,344,290	0.107
West Section	290,320	0.141
Total or average	1,634,610	0.113

Additional Mineralization:

Lavas 1,200-1,600-foot levels	300,000	0.16
Lavas 2,400-2,600-foot levels	500,000	0.13

(ODM 1967, Vol. 77, p.48; Canadian Mines Handbook 1968, p.276).

Ownership: Pamour Porcupine Mines Ltd.

History: 1911: La Palme shaft sunk to 45 feet by La Palme Porcupine Mines Ltd. 1912-14: No. 1 (Three Nations) shaft sunk to 220 feet and No. 2 (Three Nations) shaft sunk to 110 feet. Levels at 100 and 200 feet, lateral work

700 feet, stamp mill of 100 tons per day, work by Three Nations Gold Mining Company Ltd.
1915: Drifting 700 feet, crosscutting 240 feet on Three Nations property under an option by Hughes Porcupine Mines Ltd.
1924: Trenching and diamond drilling by Porcupine Grande Gold Mines Ltd.
1934-65: 35,040 feet of surface drilling, No. 3 (Pamour Main) shaft 3,144 feet, No. 4 (West Section) shaft from 600 to 2,437 feet, levels at 200, 400, 600, 800, 1,000, 1,200, 1,400, 1,600, 2,000, 2,200, 2,400, 2,600, 2,800 and 3,100 feet. No. 3 and No. 4 shaft workings connected on 2,400-foot level. Total drifting 193,701 feet, crosscutting 49,809 feet. Milling 1936 could handle 500 tons per day, and in 1938 increased to 1,700 tons per day. Work by Pamour Porcupine Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
	1936-68	1,870,520	226,662	68,539,638	18,139,723	9,200,000

References: OBM 1912, Vol. 21, pt.1, p.156
ODM 1924, Vol. 33, pt.2, p.83
Canadian Mines Handbook 1935, p.220
ODM 1935, Vol. 44, pt.1, p.131-132
Structural Geol. Canadian Ore Deposits, CIMM 1948, Jubilee Vol., p.558-563.
ODM 1968, Vol. 78, p.28-29.

Porcupine Lake Mine (Past Producer)

Main Metals: Au, Ag.

Location: 2 miles east of South Porcupine, Whitney Township. E1/2 of N1/2 lot 10, con. III. Shaft SE1/4 of N1/2 lot 10, con. III.
Map Reference: ODM 47a, Porcupine area.

Geology: Keewatin rocks which are either felsic volcanic rocks or sediments strike N60° to 70°E and dip 60°NW. The rock is a rusty weathering schist containing abundant sericite and carbonate. Quartz lenses conform with the schistosity and contain pyrite and native gold. Mineralization on the 280-foot level was 155 feet long, 4 feet wide and contained 0.4 ounces of gold per ton (Canadian Mines Handbook 1937, p.213). Drilling on the 723-foot level intersected quartz veins 20-23 feet in width (Survey of Mines 1941, p.116).

Ownership: H.H. Sutherland.

History: 1913-14: Porcupine Lake shaft inclined 56°NW to 280 feet, level at 280 feet with 300 feet of lateral workings, by The Porcupine Lake Gold Mines Ltd.
1927: Sampling of underground workings, surface and underground drilling by The Porcupine Lake Gold Mining Company Ltd.
1935-40: Porcupine Lake shaft inclined 56°NW deepened to 855 feet, levels at 280, 362, 482, 603, and 723 feet, total drifting 1,779 feet, crosscutting 1,004 feet, mill of 40 tons per day. Work by The Porcupine Lake

Gold Mining Company Ltd.
1945-48: Geophysical survey and surface drilling by Gold City Porcupine Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1937-40, 1944	1,369	86	50,160	10,821	Nil

(ODM Statistical Files, Porcupine Lake Gold Mining Company Ltd.).

References: OBM 1915, Vol. 24, pt.1, p.141
ODM 1928, Vol. 37, pt.1, p.137-138
ODM 1941, Vol. 50, pt.1, p.113-114
Survey of Mines 1941, p.116
Survey of Mines 1948, p.177.

Reef Mine (Past Producer)

Main Metals: Au, Ag.

Location: 3 miles northeast of South Porcupine, Whitney Township. Con. V, lot 9, S1/2 of N1/2, NW1/4 of S1/2, lot 10, N1/2 and NW1/4 of S1/2. Reef shaft on east boundary of claim P13091, NE1/4 of S1/2 lot 10, con. V). Map Reference: ODM P.9, Whitney Township, northwest part.

Geology: Keewatin basalts and rhyolite strike N80°W and dip steeply. A diabase dike about 70 feet wide strikes N15°W and ore was present both east and west of the dike. Typical ore zones are as follows:

Level feet	Length feet	Width feet	Gold Content ounces per ton
350	134	8.4	0.58
500	521	6.9	0.52

(Survey of Mines 1949, p.166-167).

Economic Features: Ore reserves December 31, 1964 were 100,000 tons averaging 0.165 ounces of gold per ton (Survey of Mines 1966, p.143-144). The last of the ore was hoisted in September 1965 (ODM 1965, Vol. 75, p.17).

Ownership: Broulan Reef Mines Ltd.

History: 1915-17: Shaft to 100 feet, some diamond drilling, 104 ounces of gold produced by Porcupine Gold Reef Mining Company Ltd.
1937: Surface work and diamond drilling by McIntyre Porcupine Mines Ltd.
1944-51: Magnetic survey, surface drilling more than 16,000 feet, shaft No. 1 to 1,058 feet, levels at 200, 275, 350, 400, 500, 650, 800, 970 feet, total drifting 9,856 feet, crosscutting 3,390 feet. Milling at Broulan Mill with 700 tons per day capacity. Work by Porcupine Reef Gold Mines Ltd.

1951-65: Shaft No. 1 deepened to 2,556 feet, shaft 1A extends from 2,500 feet to 2,673 feet, levels at 1,270, 1,420, 1,570, 1,720, 1,870, 2,050, 2,200, 2,350, 2,500, 2,540, 2,650 feet, total drifting to 1965 41,588 feet, crosscutting 15,261 feet, mill capacity 700 tons per day. Work by Broulan Reef Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1915-17[a]	104	12	2,135	128	-
1947-51[b]	68,354	-	2,527,579	243,056	434,473
1951-65[c]	430,474	38,907	15,748,647	1,901,323	1,732,958
Total:	498,932	38,919	18,278,361	2,144,507	2,167,431

a. Porcupine Gold Reef Mining Company Ltd.
b. Porcupine Reef Gold Mines Ltd.
c. Includes production from Bonwhit Mine after 1954.

References: GSC Mem. 192, p.110
Canadian Mines Handbook 1938, p.226
Survey of Mines 1949, p.166-167
ODM 1951, Vol. 60, pt.2, p.63
ODM 1965, Vol. 75, p.15-17.

COCHRANE DISTRICT

MINERAL OCCURRENCES

Location	References	Metals	Remarks
Beatty Tp., SE¼, S½ lot 5, con. II, etc. (Beatty Syndicate Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1957, Vol.56, pt.7, p.26-27	Au	Quartz vein up to 2 feet wide in argillite is mineralized with pyrite and pyrrhotite. A grab sample assayed 0.09 ozs. Au/ton
Beatty Tp., NE¼, N½ lot 6, con. VI (Clifford Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1947, Vol.56, pt.6, p.27	Au	1924 - Clifford Gold Mines Ltd. 1952 - Headwater Mines Ltd., trenching, 4 drill holes 2,129 feet, shaft 100 feet, "assay values were not encouraging"
Beatty Tp., NW¼, N½ lot 4, con. III, etc. (Clodan Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1947, Vol.56, pt.7, p.27-28	Au	Quartz stringers in felsic and mafic volcanics are weakly mineralized with pyrite and gold. 1939 - geophysical survey, and one hole 290 feet long by Cominco Ltd. 1945 - Short drill holes by Clodan Gold Mines Ltd.
Beatty Tp., SE¼, S½ lot 1, con. II (Claim L20224) (Denovo Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1947, Vol.56, pt.7, p.28	Au	Edgecreek Gold Syndicate, Edgecreek Cons. Gold Syndicate Ltd. 1936 - Edgecreek Gold Mines (1936) Ltd. 1941 - Denovo Gold Mines Ltd. shafts 28 feet and 32 feet, 5 drill holes 2,525 feet, "no gold values of interest"
Beatty Tp., NW¼, N½ lot 8, con. V, (Dunlop Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1947, Vol.56, pt.7, p.28	Au	Vein zone in basalt 7 feet wide, widest vein one foot, pit to 20 feet, "low values in gold"
Beatty Tp., N½ lot 3, con. I (Guinea Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1947, Vol.56, pt.7, p.28-29	Au	Vein up to 4 feet wide in quartzite and greywacke. Explored by pits and trenches east of Stewart-Abate Prospect
Beatty Tp., S½ lot 9, con. VI (Lucky Ben Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1947, Vol.56, pt.7, p.29	Au	Formerly called Mayot or Treadwell property. No. 1 vein 4 feet wide contains massive arsenopyrite and pyrite, explored by shaft to 32 feet. No. 2 vein three inches wide with pyrrhotite, pyrite, tellurides and gold
Beatty Tp., part of lots 1 and 2, con. II (Pat Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1947, Vol.56, pt.2, p.29-30	Au	On claim L2843 a breccia zone in basalt contains quartz stringers and fine pyrite, "low gold values are reported"
Beatty Tp., S½ lot 10 and lot 11, con. I (J.A. Rhodes Occurrence)	ODM Map 1947-2, Beatty Tp. ODM 1947, Vol.56, pt.7, p.30	Au	Quartz vein in northeast corner of S½ lot 11 trenched by Potter-Doal Mines Ltd. Shear zone in diabase 5 feet wide contains quartz stringers and has been explored by a shaft 24 feet deep
Bowman Tp., S½ lot 2, con. II (Campbell-Moore Occurrence)	ODM Map 2071, Currie and Bowman Tps. OBM 1919, Vol.28, pt.2, p.63 ODM 1965, GR40, p.16	Au	Vein 1 to 4 feet wide strikes east, dips 60 N and contains low values in gold
Bowman Tp., N½ lot 2, con. III (Sylvanite No. 1 Occurrence)	ODM Map 2071, Currie and Bowman Tps. ODM 1965, GR40, p.16-17	Au	Veins in mafic volcanics strike northwest, northeast and east and are mineralized with pyrite. Grab samples gave a gold content up to 0.14 oz. Au/ton
Bowman Tp., N½ lot 6, con. V (Sylvanite No. 2 Occurrence)	ODM Map 2071, Currie and Bowman Tps. ODM 1965, GR40, p.17	Au	Quartz vein in porphyry 2½ feet wide was trenched by Sylvanite Gold Mines Ltd. Spectacular showing of native gold best assays 0.02 oz. Au/ton
Bowman Tp., S½ lot 4, con. VI (Sylvanite No. 3 Occurrence)	ODM Map 2071, Currie and Bowman Tps. ODM 1965, GR40, p.17-18	Au	Surface exploration and pits on quartz veins in mafic volcanics by Sylvanite Gold Mines Ltd. during 1936-37. The best assay was 0.1 oz. Au/ton
Bowman Tp., SE¼, S½ lot 6, con. II (Turcott Occurrence)	ODM Map 2071, Currie and Bowman Tps. OBM 1919, Vol.28, pt.2, p.63 ODM 1965, GR40, p.16	Au	Narrow veins in mafic volcanics contain low values in gold
Bristol Tp., south-central part Claims P23966, 23971, 23972 etc. (Britaura Placer Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.23-24	Au	1931-34 - testing of sands indicated up to 0.37 cents per ton of placer gold. Work by E. Gauthier et al.
Bristol Tp., central part Claims P21763-21765 etc. (Continental Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.24-25	Au	In 1939 magnetic and electromagnetic surveys by Continental Kirkland Mines Ltd.
Bristol Tp., claim P8527 (Cortez Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.25-27	Au	Formerly called Hubert Property. Two adjacent quartz veins are 100 feet long up to 0.75 feet wide, contain pyrite, chalcopyrite, arsenopyrite and native gold. Explored by trench and 7 drill holes

Location	References	Metals	Remarks
Bristol Tp., claim P18556 (Empire Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.27	Au	Formerly called Toner Property. Quartz-carbonate vein 75 feet long and 2.5 feet wide contains pyrite, chalcopyrite and native gold
Bristol Tp., claim P18151 (P0640) (Enrich Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.27	Au	Quartz vein 75 feet wide and 120 feet long and nearby parallel vein 3 feet wide and 100 feet long
Bristol Tp., central part. Claim P15462 (Foley-O'Brien Placer Occurrence)	ODM Map 1947-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.28	Au	Seven drill holes 6,433 feet by Foley-O'Brien Ltd. located quartz stringers and pyritized zones. Placer gold in sand encountered in drilling assayed 0.14 oz. Au/ton 1939 - Magnetic and electrical surveys and one drill hole by Ventures Ltd.
Bristol Tp., claim P11388 (H. Goldstein Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.28	Au	Drag folded quartz-calcite veins are up to 0.5 feet wide and contain small amounts of pyrite and galena
Bristol Tp., claims P8466-8468 (F. Hendrickson Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.10	Au	Small drag folded quartz veins contain sulphides and native gold. Vein 1.5 feet wide explored by a shaft on P8568
Bristol Tp., claim P15468 etc. (Hoyle Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.28	Au	Drill hole intersected porphyry containing very low values in gold
Bristol Tp., claim P10786 (P.A. Kindree Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.29	Au	Quartz stringers in rhyolite carry sulphides and gold
Bristol Tp., claims P18945-18947 (J.B. McClinton Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.29 ODM Resident Geologist, Timmins, File T-300	Au	Quartz-carbonate stringers with small amounts of pyrite and chalcopyrite in porphyry encountered in drilling
Bristol Tp., claims P1243, P1410 (D.J. McDonell Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.29	Au	Small quartz veins in rhyolite have been explored by pits
Bristol Tp., adjacent to S boundary (McKay-Wilson-Harris-Paul Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.30	Au	Keewatin argillite and greywacke are intruded by a quartz monzonite stock. Veins from 2 to 8 feet in width contained very little gold
Bristol Tp., claims P8404-8406 (McKinley and Molesky)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.29-30	Au	Quartz-carbonate veins in basalt contain pyrite, chalcopyrite and native gold with the best assay 0.82 ounces. Explored by pits and in 1926, three drill holes by Foley-O'Brien Ltd.
Bristol Tp., claim group adjacent to northeast corner (Mineral Estates Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.30-32	Au	Veins from 0.5 to 0.75 feet in width in basalt are poorly mineralized, and zones of electrical conductivety exist. Prospecting by Hubert, optioned by Toburn Gold Mines Ltd. geophysical surveys, 2 drill holes 150 feet
Bristol Tp., P26392-26400 and P26403 (P. O'Shea Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.32-33	Au	Vein 100 feet long, 1 foot wide, 570 feet of drilling with one assay of 0.17 oz. Au/ton over a length of 1 foot
Bristol Tp., southeast part adjacent to township boundary (Penrose Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.30	Au	Magnetic survey by Penrose Gold Mines Ltd. in 1945
Bristol Tp., P7371-7375 (Rusk Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.33-34	Au	Claim P8396 pit in basalt gave assays up to 0.71 oz. Au/ton. Carbonatized argillite contains quartz stringers and pyrite, 18 holes 6,500 feet drilled. Formerly R.W.F. Mines Ltd.
Bristol Tp., central part Claims P4493 etc. (Spina Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.34-35	Au	Quartz vein 30 feet long is mineralized with pyrite and arsenopyrite. Four holes near the showing, 3 holes on cross-sectional drilling,work by Spina Porcupine Mines Ltd.
Bristol Tp., claims P8508, P8511 (Toner and McCormick Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.37	Au	A zone of parallel quartz stringers in basalt contains pyrite and chalcopyrite
Bristol Tp., central part. Claims P15477-15479 (Trident Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.37	Au	In 1949 magnetic survey by Trident Porcupine Gold Mines Ltd.
Bristol Tp., claims P8537, P8538, P1 P10627-10629 etc. (T. Wright Occurrence)	ODM Map 1957-7, Bristol Tp. ODM 1957, Vol.66, pt.7, p.37-39	Au Ag	The veins are up to 5 feet wide and strike east in the Bristol Lake porphyry. No. 1 (South) vein is exposed for 100 feet and contains pyrite, chalcopyrite and native gold. No. 2 (North) vein is exposed for more than 100 feet with grab samples carrying up to 3.8 oz. Au/ton and 27 oz. Ag/ton. Pyritized zones are present in argillite. Exploration by trenching, geophysical surveys and diamond drilling by Ventures Ltd.

Location	References	Metals	Remarks
Byers Tp., claim P17330 etc. (Jamieson Occurrence)	ODM Map 40c, Groundhog-Kamiskotia area ODM 1931, Vol.40, pt.3, p.35-36	Au	A wide porphyry dike is exposed for a length of 300 feet and contains quartz, stringers, pyrite, pyrrhotite and chalcopyrite. A vein 2 feet wide in iron formation contains up to 0.24 oz. Au/ton. Work before 1930 by Jamieson Exploration Company
Carman Tp., central part, 10 miles E of South Porcupine, in a large bay SW of Gull Island in Night Hawk Lake (Canadian Superior Occurrence)	ODM 1969, Open File Rept. 5037, p.56 ODM Resident Geologist, Timmins, File T-943 ODM Map P.356, Carman Tp.	Au	Keewatin mafic and felsic metavolcanics are intruded by serpentinite and porphyry. Poorly mineralized magnetic and electromagnetic anomalies were located. 1965-66 - Diamond drilling totalling 2,282 feet by Canadian Superior Exploration Ltd.
Carman Tp., formerly held 15 claims north and west of Crow Island (Edgewater Occurrence)	ODM Map P.356, Carman Tp. ODM 1969, Open File Rept. 5037, p.59 ODM Resident Geologist, Timmins, File T-434	Au	1945-46: Magnetic survey and 13 drill holes 6,417 feet by Edgewater Porcupine Mines Ltd.
Carman Tp., southwest part, claim P15962 (R. LaSalle Occurrence)	ODM Map P.356, Carman Tp. ODM 1969, Open File Rept. 5037, p.70-71	Au	Stripping, trenching and sampling
Carman Tp., west of Carman Bay (Noranda Occurrence)	ODM Map P.356, Carman Tp. ODM 1969, Open File Rept. 5037, p.78	Au	Magnetic and electromagnetic surveys 1 drill hole 415 feet by Noranda Exploration Co. Ltd.
Carman Tp., southwest part Claims P6378-6379 (M. North Occurrence)	ODM Map P.356, Carman Tp. ODM 1969, Open File Rept. 5037, p.78	Au	Narrow quartz veins cutting Keewatin basalt and rhyolite assayed up to 2.4 oz. Au/ton
Carman Tp., east shore of Carman Bay (Trio Occurrence)	ODM Map P.356, Carman Tp. ODM 1969, Open File Rept. 5037, p.91 ODM Resident Geologist, Timmins, File T-1464	Au	Quartz stringers cutting Keewatin basalt and dikes of Kenoran porphyry and felsite assay up to 0.4 oz. Au/ton
Carman Tp., southwest part (United Macfie Occurrence)	ODM Map P.356, Carman Tp. ODM 1969, Open File Rept. 5037, p.91-92 ODM Resident Geologist, Timmins, File T-1299	Au	Magnetic and electromagnetic surveys, 3 drill holes 1,074 feet by United Macfie Mines Ltd.
Carr Tp., NW¼, N½ lot 4, con. I (Black River Occurrence)	ODM Map 1951-1, Carr Tp. ODM 1951, Vol.60, pt.4, p.20-21 OBM 1919, Vol.28, pt.2, p.63	Au	Quartz stringers in carbonatized volcanics explored by an inclined shaft 50 to 75 feet in depth, put down after 1919. A grab sample assayed 0.12 oz. Au/ton
Carr Tp., SW¼, S½ lot 12, con. III and Taylor Tp., SE¼, S½ lot 1, con. III (Watabeag Occurrence)	ODM Map 1951-1, Carr Tp. ODM 1952, Vol.61, pt.4, p.20	Au	Quartz-carbonate stringers in mafic volcanics contain sulphides and gold. Diamond drilling in 1945 by Hollinger Consolidated Gold Mines Ltd.
Carr Tp., N½ lot 2, con. VI, etc. (Wilcarr Occurrence)	ODM Map 1951-1, Carr Tp. ODM 1951, Vol.60, pt.4, p.21	Au	Mafic volcanics contain quartz-carbonate stringers up to a foot in width, mineralized with pyrite, chalcopyrite and gold. In 1944 and 1945 a magnetic survey and 13 drill holes tested this showing and adjacent areas. Work by Wilcarr Mines Ltd.
Carscallen Tp., northwest part, 700 feet southwest of No. 3 post P2122 (Blackburn Occurrence)	ODM Maps 35g, Carscallen, Bristol and Ogden Tps., and P.23,Carscallen Tp. ODM 1926, Vol.35, pt.6, p.35	Au	A porphyry dike occurs at the contact between Keewatin mafic volcanics and gabbro. A quartz vein containing pyrite and pyrrhotite has been explored by an adit
Carscallen Tp., northwest part (Claim P1233 Occurrence)	ODM Map 35g, Carscallen, Bristol and Ogden Tps., and P.23,Carscallen Tp. ODM 1926, Vol.35, pt.6, p.36	Au	A quartz vein 3 feet wide and 100 feet long occurs at the contact of an inclusion of mafic volcanics in gabbro
Carscallen Tp., north boundary adjacent to the 25-mile post (Fournier Occurrence)	ODM Map 35g, Carscallen, Bristol and Ogden Tps. ODM 1926, Vol.35, pt.6, p.35	Au	Quartz stringers containing native gold are present in basalt and porphyry
Carscallen Tp., near northeast corner Claims P7507, P52950, etc. (Larchmont Occurrence)	ODM Map 35g, Carscallen, Bristol and Ogden Tps. ODM 1926, Vol.35, pt.6, p.35 Mineral Resources Branch, File, Larchmont	Au Ag	Veins occur in porphyry and Keewatin mafic and felsic volcanics. Grab samples assay up to 4.51 oz. Au/ton and 2.11 oz. Ag/ton. 1964 - Alsof Mines Ltd. 1965 - Larchmont Mines Ltd.
Cody Tp., part of lots 11 and 12, con. IV and V (Bertram Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.53	Au	In 1935 some 2,000 feet of diamond drilling by Whitney Contact Syndicate

Location	References	Metals	Remarks
Cody Tp., lot 10, con. IV, etc. (Black Hawk Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.54 ODM Resident Geologist, Timmins, File T-431	Au	Three drill holes 402 feet put down by Black Hawk Porcupine Mines Ltd. in 1945 encountered some iron sulphides in Keewatin argillite and greywacke
Cody Tp., west side of Night Hawk Lake (Cocallen Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.58 ODM Resident Geologist, Timmins, File T-432	Au	In 1944 three drill holes 1,928 feet by Lakefield Porcupine Mines Ltd. intersected chalcopyrite containing gold in Keewatin argillite
Cody Tp., N½ of N½ lots 11 and 12, con. VI, etc. (Falconbridge Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.60 ODM Resident Geologist, Timmins, File T-234, T-236	Au	Gold is in Timiskaming conglomerate along strike from the Hoyle Mine. 1935-37 - 13 holes drilled by Hoyle Gold Mines Ltd.
Cody Tp., land portion of lot 8, con. IV, etc. (W.H. Miller Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.74	Au	1946 - Magnetic survey and 3 drill holes by Mining Corporation of Canada Ltd. intersected Keewatin sediments
Cody Tp., lot 12, con. II (Mining Corporation Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.75 ODM Resident Geologist, Timmins, File T-436	Au	1944 - 4 drill holes 1,841 feet by Mining Corporation of Canada Ltd. intersected quartz-carbonate stringers in greywacke etc.
Cody Tp., S½ lot 11, con. I (Redstone Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.85 ODM Resident Geologist, Timmins, File T-437	Au	1945 - One drill hole 970 feet by Redstone Porcupine Mines Ltd. intersected Keewatin argillite and Kenoran porphyry which assayed nil gold content
Cody Tp., North Peninsula Claims P18622-18626 (Rio Algom Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.86-87	Au	1946 - 5 drill holes 5,618 feet by New Electra Gold Mines Ltd. Keewatin basalt, rhyolite and agglomerate contain a small amount of native gold
Cody Tp., claims P8969, 8971, 9015-9019 etc. (Roma Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.87-88 ODM Resident Geologist, Timmins, File T-193	Au	1939 - Geological and magnetic surveys, 7 holes 3,065 feet by Erie Canadian Mines Ltd. Very low gold values were present in Timiskaming conglomerate and Haileyburian serpentinite
Cody Tp., North Peninsula, claims P6140, 7939, 8608-8609, 8721, 16923 (Ronnoco Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.88-89 ODM Resident Geologist, Timmins, File T-110	Au	1923-28 - Trenching, pits, shaft to 32 feet by Sterling Development Co. Zone 50 feet wide in Keewatin argillite with Kenoran granitic dikes contains up to 0.66 oz. Au/ton. Owned by Ronnoco Gold Mines Ltd.
Cody Tp., N½ lot 10, con. II, etc. (Shanwell Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.89-90 ODM Resident Geologist, Timmins, File T-1466	Au	Surface work and diamond drilling by Shanwell Porcupine Gold Mines Ltd. 1945-48 - Magnetic survey and diamond drilling by Buma Dip Gold Mines Ltd.
Cody Tp., southern part of Poplar Point, etc. (Whitco Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.92-93 ODM Resident Geologist, Timmins, File T-438	Au	1946 - four drill holes 2,060 feet by Whitco Porcupine Mines Ltd. intersected traces of gold in Keewatin basalt
Cody Tp., northeast part Claims P18288, 18584-18589, etc. (Wilwood Occurrence)	ODM Maps P.545, Cody Tp. and P.546, Macklem Tp. ODM 1969, Open File Rept. 5037, p.93-94 ODM Resident Geologist, Timmins, File T-133	Au	1936 - Five drill holes 1,733 feet by Wood-Porcupine Syndicate. The best assay was 0.8 oz. Au/ton over a length of 2 feet in Timiskaming conglomerate
Cody Tp., N½ of N½ lot 11, con. V (Wineva Occurrence)	ODM Map P.545, Cody Tp. ODM 1969, Open File Rept. 5037, p.94	Au	Trenching and geological mapping by J.W. Young. 1936 - 3 drill holes 1,954 feet by Wineva Gold Mines Ltd. Highest assay 0.26 oz. Au/ton in Keewatin basalt and argillite
Côté Tp., central part Claims P13108, 13109, 16851, 16852 (T. Jack Occurrence)	ODM Map 40c, Groundhog-Kamiskotia area ODM 1931, Vol.40, pt.3, p.35	Au	A porphyry dike cuts mafic volcanics and gabbro. The dike contains quartz stringers and is mineralized with pyrite, chalcopyrite and gold
Côté Tp., northwest part Claims P16861-16862 (Lasikauf Occurrence)	ODM Map 40c, Groundhog-Kamiskotia area ODM 1931, Vol.40, pt.3, p.34-35	Au	Vein 2 feet wide exposed for 30 feet is altered gabbro adjacent to a porphyry dike. Mineralization consists of pyrite, chalcopyrite with the better assays for gold ranging from 0.17 to 1.2 oz. Au/ton. In 1928 two holes 235 feet drilled by Hollinger Consolidated Gold Mines Ltd.

Location	References	Metals	Remarks
Currie Tp., N½ lot 6, con. VI (J. Anderson Occurrence)	ODM Map 2071, Currie and Bowman Tps. ODM 1965, GR40, p.14	Au	Mafic metavolcanics are intruded by porphyry and diabase. Quartz vein 2 feet wide contained sphalerite, galena, chalcopyrite, pyrite and a spectacular showing of native gold
Currie Tp. (N½ lot 1, con. II Occurrence)	ODM Map 2071, Currie and Bowman Tps. ODM 1965, GR40, p.15	Au	Quartz-carbonate veins in mafic volcanics contain pyrite, chalcopyrite, pyrrhotite and a trace of gold
Currie Tp., S½ lots 5 and 6, con. II (S. Reid Occurrence)	ODM Map 2071, Currie and Bowman Tps. ODM 1931, Vol.40, pt.3, p.21-22 ODM 1965, GR40, p.14	Au	Quartz stringers in mafic volcanics adjacent to a porphyry dike contain sphalerite, chalcopyrite, iron sulphides and a picked sample assayed 0.2 oz. Au/ton
Deloro Tp., northwest part Claims HR844 (P8277), HR845 (P8278) (Clucas Booker Occurrence)	ODM Map P.342, Deloro Tp. ODM 1924, Vol.33, pt.2, p.81 ODM 1967, Open File Rept. 5012, p.91-92	Au	An assay of 0.28 oz. Au/ton over a width of 4 feet was obtained in carbonatized Keewatin basalt. Early exploration was by excavating trenches and pits. 1936 - Surface work and sampling by Clucas Booker Gold Mining Co. Ltd.
Deloro Tp., northwest part, showing on claim P7929 (Delnaur Occurrence)	ODM Map P.342, Deloro Tp. ODM 1967, Open File Rept. 5012, p.93	Au	Carbonatized Keewatin basalt contains quartz stringers and over a width of 7.5 feet assayed 0.35 oz. Au/ton. 1938 - 1,500 feet of drilling by Martin McNeely Mines Ltd. 1940-41 - 5 holes 3,000 feet by Delnaur Gold Mines Ltd. Owned by Associated Porcupine Mines Ltd.
Deloro Tp., northeast part Claims HF361-363 (D.J. Mascioli Occurrence)	ODM Map P.342, Deloro Tp. ODM 1967, Open File Rept. 5012, p.101	Au	A quartz vein in Keewatin rhyolite and iron formation assayed 0.08 oz. Au/ton over 2 feet
Deloro Tp., shafts on claim HS1036 (Novack Occurrence)	ODM Map P.342, Deloro Tp. ODM 1967, Open File Rept. 5012, p.105	Au	Before 1912 shafts to 45 feet and 50 feet. A zone in Keewatin basalt assayed 2.2 oz. Au/ton over 26 feet and 1.1 oz. Au/ton over 36 feet
Deloro Tp., northwest part Claims HR891 (P7401), HR892 (P7125), HR893 (P7124), HR898 (P7402) (Rypan Occurrence)	ODM Map P.342, Deloro Tp. OBM 1918, Vol. 27, pt.1, p.112-113 GSC Mem. 192, p.111 Survey of Mines 1948, p.184	Au	1917 - Surface work by Rypan Porcupine Mines Ltd. 1929 - 4,000 feet of drilling by Rypan Porcupine Mines Ltd. 1945-46 - 10,200 feet of drilling by Rypan Porcupine Mines Ltd.
Egan Tp., S½ lot 9, con. III (Lightning River Occurrence)	ODM Map P.22, Egan Tp. ODM 1922, Vol.31, pt.7, p.21	Au	Mafic volcanics are intruded by porphyry dikes and a zone of quartz stringers mineralized with pyrite is 100 feet wide and contains low values in gold. In 1916 work by Lightning River Gold Mines Ltd.
Elliot Tp., northern part Claims L7399 and L7400 (Boulder Occurrence)	ODM Map 34a, Lightning River area ODM 1925, Vol.34, pt.6, p.97	Au	Angular mineralized boulders containing gold were found and some trenching done
Garrison Tp., northeast part Claims L39657-39661 (W.M. Anderson Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.17	Au	Granite contains up to 5 percent pyrite. In 1946 one hole drilled by Insgar Mines Ltd.
Garrison Tp., southeast part Claim L12739 etc. (Bambi Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.17-18	Au	A vein breccia averaging 4 feet wide and at least 300 feet long contains about 0.06 oz. Au/ton. In 1937 and 1946 13 holes 1,835 feet by Garrison Development Syndicate. 1946-47 - seven holes 3,527 feet by Bambi Mines Ltd.
Garrison Tp., central part Claim L35604 etc. (S.J. Bird No. 1 Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.19	Au	Quartz stringers in granite have been explored by pits
Garrison Tp., southwest part Claim L38476 (S.J. Bird No. 2 Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.19	Au	Low gold values are present in pyritized interflow chert beds
Garrison Tp., adjacent to west boundary and north of Halfway Lake (Broulan Porcupine Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.19	Au	Carbonatized zone 300 feet wide with associated mafic volcanics and greywacke contain pyrite and low gold values. In 1946 two holes 1,805 feet drilled by Broulan Porcupine Mines Ltd.
Garrison Tp., northeast part Claims L25803, 25804, 25940 etc. (Brydges Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.19-20	Au Ag	A quartz vein up to 10 inches wide is mineralized with galena and assayed 0.03 oz. Au/ton and 2.32 oz. Ag/ton. Carbonate iron formation occurs in greywacke. Five drill holes by Brydges Gold Mines Ltd. and Insgar Mines Ltd.

Location	References	Metals	Remarks
Garrison Tp., northeastern part Claims L38949-38951 (Cominco Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.22	Au	Four holes 2,110 feet drilled by The Consolidated Mining and Smelting Company of Canada Limited intersected mafic volcanics and greywacke
Garrison Tp., southeast part Claim 128889 etc. (Deloye Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.23	Au	Quartz veins up to 6 inches wide in mafic volcanics have been trenched by E.C. Deloye
Garrison Tp., near north boundary. 3 unsurveyed claims extending west of the southwest corner of Rand Tp. (Dipaolo Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.23	Au	A chert band up to 100 feet wide occurs in mafic volcanics and is mineralized with pyrite and chalcopyrite. At the eastern end of the zone a band of pyrrhotite and minor chalcopyrite contains low gold values
Garrison Tp., west-central part Claims L42915, 42916 etc. (Garrison Creek Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.24-25	Au	5 holes drilled on claim L51443 etc. by Cominco Ltd. 1946-47 - Magnetic survey and 20 holes 12,318 feet by Garrison Creek Mines Ltd. One hole on claim L42904 by Wright-Hargreaves Mines Ltd. Low gold values in carbonate rocks, mafic volcanics and porphyry
Garrison Tp., southeast part, 600 feet north of No. 1 post, claim L32557 (Garrison-Harbour Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.25	Au Ag	Quartz vein in granite 5½ feet wide exposed for 130 feet. Vein mineralization consists of small amounts of pyrite, chalcopyrite and galena. Assays indicate 0.02 oz. Au/ton and 0.90 oz. Ag/ton
Garrison Tp., northwest part Claims L39858, L39859 etc. (Hastings Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.26-27	Au	Quartz veins mineralized with pyrite, galena and gold occur in greywacke and porphyry dikes and drilling indicates mafic lavas, carbonate rocks, felsic intrusives, etc. 1945-47 - 29 holes, 19,555 feet by Sylvanite Gold Mines Ltd., Wright-Hargreaves Mines Ltd., and Brewis and White Ltd.
Garrison Tp., north-central part Claims L26414-26416, L26420-26422 (Inspiration Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.27	Au	Mafic lavas cut by syenite dikes were intersected in drilling. Drilling by Wright-Hargreaves Mines Ltd. was 4 holes 2,530 feet and by Insgar Mines Ltd. 2 holes 2,247 feet
Garrison Tp., northeastern part Claims L26074, 26075, L40273 etc. (Linton Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.27	Au	Greywacke with carbonatized zones contain quartz veins and stringers and have been explored by pits. 1946-47 - property under option by Insgar Mines Ltd. 1948 - Inspiration Mining and Development Co. Ltd.
Garrison Tp., northeast part, north of claims L43425 and L43426 (Mining Corporation No. 1 Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.27-28	Au	Greywacke and mafic volcanics explored by 10 drill holes put down by Mining Corporation of Canada Ltd.
Garrison Tp., northeast part, west of claim L26385 (Mining Corporation No. 2 Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.27-28	Au	Quartz vein up to 5 feet wide in fault zone between mafic volcanics and gabbro has been explored by pits. One drill hole by Mining Corporation of Canada Ltd.
Garrison Tp., northeast part Claim L43426 etc. (Morningdale Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.28	Au	In 1946, 4 holes 3,903 feet drilled by Morningdale Mines Ltd. Mafic volcanics, porphyry and carbonate rocks were intersected by drilling
Garrison Tp., north-central part Claims L26432-26434, L29734, L39428-39429, L43702 etc. (Newfield Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.28-29	Au	Rock types are greywacke, mafic volcanics, carbonate schist and felsic dikes. Two drill holes intersected commercial grade ore in syenite. 1946 - 20 holes 13,422 feet by Dome Exploration (Canada) Ltd. and 4 holes 2,742 feet by Wright-Hargreaves Mines Ltd. Newfield Mines Ltd. took over property in 1946
Garrison Tp., adjacent to east boundary, 1,300 feet north of the 3-mile post (Shunsby Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol. 58, pt.4, p.30	Au	Quartz stringers in a zone 4 feet wide and 130 feet long in mafic volcanics contain pyrite and a sample assayed 0.05 oz. Au/ton. In 1946 magnetic survey and 9 holes 4,005 feet by Shunsby Gold Mines Ltd.
Garrison Tp., northwestern part Claim L27257 etc. (Voge Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.30-31	Au	Greywacke, mafic volcanics, carbonate rocks and felsic intrusives have been intersected by drilling
Garrison Tp., central part Claims L43903, L44149 and L47324 (Wright-Hargreaves Occurrence)	ODM Map 1949-1, Garrison Tp. ODM 1949, Vol.58, pt.4, p.31	Au	1946-47 - 15 holes, 13,431 feet drilled by Wright-Hargreaves Mines Ltd. Mafic volcanics, carbonate rock and felsic intrusives were intersected in drilling

Location and Name	References	Metals	Remarks
German Tp., part of lots 7 and 8, con. III and lots 8 and 9, con. IV (Hollinger Occurrence)	ODM Map P.37, German Tp.	Au	Extensive drilling on patented ground by Hollinger Consolidated Gold Mines Ltd.
Godfrey Tp., SW¼, S½ lot 8, con. IV Claim P34741 (R.G. Burke No. 1 Occurrence)	ODM Map 1954-4, Godfrey Tp. ODM 1954, Vol.63, pt.7, p.32	Au	Keewatin andesite is intruded by porphyry dikes which contain pyrite and native gold
Godfrey Tp., NE¼, N½ lot 10, con. IV (R.G. Burke No. 2 Occurrence)	ODM Map 1954-4, Godfrey Tp. ODM 1954, Vol.63, pt.7, p.33-34	Au	Vein in rhyolite up to 4 feet wide and exposed for 120 feet with 5-20% chalcopyrite, sphalerite and gold content up to 0.11 oz. Au/ton
Godfrey Tp., N½ lot 8, con. III (A. Herbert Occurrence)	ODM Map 1954-4, Godfrey Tp. ODM 1954, Vol.63, pt.7, p.35-36	Au	Disseminated pyrite in rhyolite contains low values in gold
Guibord Tp., W½, N½ lot 8, con. VI (Barrett Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.40	Au	Keewatin basalt and greywacke intersected in drilling with stringers carrying native gold. In 1949, 2 holes 1,780 feet drilled by Broulan Porcupine Mines Ltd.
Guibord Tp., NW¼, N½ lot 9, con. VI (Barlow-Dyer Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.38-40	Au	Veins and stringer zones up to 10 feet wide in Keewatin greywacke strike northeast. Grab samples from quartz-carbonate veins and stringers contain up to 0.23 oz. Au/ton. In 1950 one hole 614 feet drilled by Broulan Porcupine Mines Ltd.
Guibord Tp., SW¼, N½ lot 9, con. VI (Big Pete Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.40-41	Au	Numerous pits and shafts on quartz veins and stringers in Keewatin greywacke. Mineralization consists of pyrite, sphalerite and native gold
Guibord Tp., NE¼, N½ lot 10, con. VI (Bonter Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.38-40	Au	Veins strike northeast in Keewatin greywacke, are up to 3 feet wide and contain pyrite and galena. A grab sample assayed 0.28 oz. Au/ton. 1910 - Held by Big Pete Canadian Mines Ltd. 1911 - by G.A. Bonter
Guibord Tp., NW¼, N½ lot 11, con. VI (W.J. Brown Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.43	Au	Quartz lenses 1-2 inches wide in greywacke contain pyrrhotite
Guibord Tp., N½ lot 12, con. II (Byberg Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.47-48	Au	No outcrops, property underlain by rhyolite containing sulphides but little gold. In 1945, 15 holes 11,000 feet drilled by Gunnar Gold Mines Ltd.
Guibord Tp., part of lots 8, 9, 10, con. III and IV (Carman Occurrence)	ODM Map 1951-6, Guibord Tp., ODM 1941, Vol.60, pt.9, p.48-49	Au	On the S½ lot 9, con. IV, quartz veins and stringers containing chalcopyrite and galena occur in granite and carbonatized rocks. Eighteen holes 10,000 feet drilled by Carman Gold Mines Ltd.
Guibord Tp., lots 1 and 2, con. VI Claims L4426 and L4526 (Dyer Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.49	Au	Quartz vein up to 1.5 feet wide exposed for 250 feet
Guibord Tp., E½, N½ lot 9, con. VI (A. Eby Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.43-44	Au	Carbonatized greywacke is intruded by a porphyry dike 20-30 feet wide which is mineralized with pyrite and contains quartz stringers. Twelve holes 3,200 feet drilled under an option by S.J. Bird
Guibord Tp., NW¼, N½ lot 10, con. VI (Gold Coin Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.43-44	Au	Stringer zones and narrow veins occur in arkose and are weakly mineralized with galena. In 1946, 5 drill holes were put down with a total length of 2,400 feet. Held in 1911 by Munro Mines Ltd., and in 1936 by White-Guyatt Mining Company Ltd.
Guibord Tp., SW¼, N½ lot 9, con. V (Gui-Por Northern Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.50	Au	Two holes intersected unmineralized greywacke and argillite drilled by Gui-Por Gold Mines Ltd.
Guibord Tp., part of lots 10 and 11, con. II (Gui-Por No. 2 Occurrence)	ODM Map 1951-6, Guibord Tp., ODM 1951, Vol.60, pt.9, p.50	Au	Six holes 6,179 feet intersected basalt intruded by a large porphyry mass, with some quartz veins and stringers. Drilling by Gui-Por Gold Mines Ltd.
Guibord Tp., southern part of lots 7 and 8, con. III (Gui-Por No. 3 Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.50	Au	Five holes 720 feet drilled from outcrop area located basalt with interbeds of sediments
Guibord Tp., part of lots 5 and 6, con. IV and V (Hansen-McDonnell Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.51	Au	Six holes attempted, one reached greywacke bedrock, by Perron Gold Mines Ltd.

Location	References	Metals	Remarks
Guibord Tp., part of lots 10, 11 and 12, con. IV and V (Hislop Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.51	Au	Carbonate veins and carbonatized rocks encountered in drilling. Fifteen holes 9,446 feet drilled by Hoyle Mines Ltd.
Guibord Tp., N½ lot 12, con. III (Kelore Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.51-52	Au	Syenite body intruding Keewatin basalt and rhyolite indicated by drilling. Fourteen holes 9,900 feet drilled by Hollinger Consolidated Gold Mines Ltd.
Guibord Tp., part of lots 2 to 6, con. II to IV (Morgan Creek Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.52	Au	Granite-syenite stock intrudes Keewatin basalt, and quartz stringers in the syenite contain pyrite and slight gold mineralization. Ten drill holes 7,220 feet put down by Morgan Creek Mines Ltd.
Guibord Tp., SE¼, N½ lot 10, con. VI (Potter and Johnston Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.46	Au	Vein in Keewatin greywacke consists of quartz, carbonate, pyrite and galena. Exploration by trenches and pits
Guibord Tp., 5 claims in lots 6 and 7, con. VI (Quinn Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.46	Au	Carbonatized Keewatin basalt contains narrow quartz veins and some disseminated pyrite. Explored by pits and trenches
Guibord Tp., S½ lot 12, con. III (R. Ross Occurrence)	ODM Map 1951-6, Guibord Tp. ODM 1951, Vol.60, pt.9, p.52-53	Au	Four holes 4,000 feet by Hollinger Consolidated Gold Mines Ltd. intersected rhyolite
Guibord Tp., part of lots 10, 11, and 12, con. II (South Porcupine Occurrence)	ODM Map 1951-6, Guibord Tp., ODM 1951, Vol.60, pt.9, p.53	Au	Keewatin basalt and sediments with diorite sills and feldspar porphyry dikes indicated by drilling. Eighteen holes 17,000 feet drilled by South Porcupine Syndicate
Harker Tp., S of survey claim L40204 (American Yellowknife Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.27	Au	Underlain by syenite and mafic volcanics. Geophysical survey 1946
Harker Tp., between Dale and Light Val groups (H.P. Bellingham Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.25-26	Au	Carbonatized greywacke is mineralized with specularite and pyrite and has been explored; trenching and a geophysical survey
Harker Tp., northeast part Claim L11244 (Ben-Arch Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.26	Au	Mafic volcanics are carbonatized and pyritized. Explored by pits and trenches. Owned 1922 by E.B. Archibald 1937-60 - Ben-Arch Mines Ltd.
Harker Tp., northeast part Claim L39986 (Consular Harker Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.27-28	Au	C showing explored by 173 feet of trenching. Gold values up to 0.18 oz. Au/ton. Work by Consular-Harker Gold Mines Ltd.
Harker Tp., west-central part Claims L44053 and L44055 (Cortez Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.28	Au	Four diamond drill holes with a total length of 2,123 feet were drilled in 1945 by Cortez Explorations Ltd.
Harker Tp., northwest part Claims L3993, L39932, L39933, L39934 (Dale Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.28-29	Au	1946-47 - Geophysical survey and 6 holes with a combined length of 5,016 feet drilled by Dale Gold Mines Ltd.
Harker Tp., central part Claims L11547, L11459-11461 (G. Demers Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.29-30	Au	Carbonatized greywacke contains quartz-carbonate stringers and have been explored by pit. A grab sample assayed 0.01 oz. Au/ton
Harker Tp., central part Claims L13404, L27600 etc. (Imperial Reserve Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.35	Au	Drilling on claim L13407 in mafic volcanics cut zones 8-10 feet wide containing about 0.06 oz. Au/ton. A grab sample of pyritized greywacke contained up to 0.17 oz. Au/ton. Formerly owned by Imperial Reserve Mines Ltd.
Harker Tp., southeast corner Claim L9738 etc. (Iris Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.35-36	Au	Breccia zone on mafic volcanic-felsic volcanic contact contains quartz, pyrite, chalcopyrite and galena. Assays up to 0.29 oz. Au/ton over a width of 1.7 feet were obtained by Iris Gold Mines Ltd.
Harker Tp., north-central part Claim L29750 etc. (Lightval Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.37-38	Au	A quartz-carbonate zone in greywacke contains pyrite and a trace of gold. A geophysical survey and 12 drill holes by Lightval Mines Ltd. in 1947-48
Harker Tp., adjacent to south boundary Claim L13381 etc. (Toronto Harker Occurrence)	ODM Map 1951-4, Harker Tp. ODM 1951, Vol.60, pt.7, p.44	Au	Explored by trenching. Gold reported in grab samples of rhyolite. Toronto Harker Gold Mines Ltd. charter cancelled 1958
Hepburn Tp., southwest part (Location No. 6 Occurrence)	ODM Map 2025, South Patten River area ODM 1963, GR14, p.36-37	Au	Siliceous zone 5 feet wide intersected in drilling contained a trace of gold. In 1958 one drill hole 297 feet by Kennco Explorations (Canada) Ltd.

Location	References	Metals	Remarks
Hislop Tp., N½ lot 4, con. V (Abuy Occurrence)	ODM Map 1955-5, Hislop Tp. ODM 1956, Vol.65, pt.5, p.34-35	Au	Quartz-carbonate veins are present in carbonatized mafic volcanics cut by porphyry dikes. Mineralization consists of pyrite, chalcopyrite and gold. Sampling and drilling in 1939 and 1945 by Abuy Gold Mines Ltd. Formerly called McBride Claims
Hislop Tp., N½ lot 2, con. V (Anson Cartwright Occurrence)	ODM Map 1955-5, Hislop Tp. ODM 1956, Vol.65, pt.5, p.35	Au	During 1947 and 1948 a magnetic survey was made and 3 holes with a total length of 1,672 feet drilled by Anson Cartwright Mines Ltd.
Hislop Tp., N½ lot 1, con. I and S½ lot 1, con. II (Endross Occurrence)	ODM Map 1955-5, Hislop Tp. ODM 1956, Vol.65, pt.5, p.37-38	Au	Magnetic survey and four drill holes 3,769 feet in length drilled by Endross Consolidated Mines Ltd. in 1949
Hislop Tp., lot 3, con. III and S½ lot 4, con. III (Gunnar Occurrence)	ODM Map 1955-5, Hislop Tp. ODM 1956, Vol.65, pt.5, p.38	Au	Seven drill holes with a total length of 5,500 feet were put down by Gunnar Mines Ltd. from 1946 to 1949
Hislop Tp., N½, S½ lot 2, con. IV (Hiskerr Occurrence)	ODM Map 1955-5, Hislop Tp. ODM 1956, Vol.65, pt.5, p.38	Au	Nine holes with a total length of 5,157 feet were drilled in 1947 by Hiskerr Gold Mines Ltd. to explore the area northwest of the Kelore property
Hislop Tp., N½ lot 2, con. II and S½ lot 2, con. III (Holcorp Occurrence)	ODM Map 1955-5, Hislop Tp. ODM 1941, Vol.50, pt.1, p.51 ODM 1956, Vol.65, pt.5, p.39	Au	Hisbert Mines Ltd. inc., 1935, Holcorp Gold Mines Ltd. inc. 1940. Exploration from 475-foot level of the Ross Mine did not locate ore
Hislop Tp., N½ lot 4, con. IV (Martin-Bird Occurrence)	ODM Map 1955-5, Hislop Tp. ODM 1956, Vol.65, pt.5, p.47-48	Au	Eleven holes with a total length of 9,752 feet were drilled by Martin-Bird Gold Mines Ltd. in 1949
Holloway Tp., northwest part (Ghostmount Occurrence)	ODM Map 1953-4, north part of Holloway Tp. ODM 1953, Vol.62, pt.7, p.28-29	Au	Keewatin basalt and greywacke cut by porphyry dikes intersected in drilling. From 1944-48 magnetic survey, 14 drill holes 6,446 feet by Holye Mining Co. Ltd.
Holloway Tp., northeastern part (Lobanor Occurrence)	ODM Map 1953-4, north part of Holloway Tp. ODM 1953, Vol.62, pt.7, p.29	Au	Believed to be underlain by Keewatin basalt and greywacke. In 1949 five holes 5,129 feet drilled by Lobanor Gold Mines Ltd.
Holloway Tp., southwest part Claim L7135 (Lightning River Occurrence)	ODM Map 34a, Lightning River area OBM 1919, Vol.28, pt.2, p.46-49 ODM 1925, Vol.34, pt.6, p.95	Au	A zone in mafic volcanics and rhyolite is 2-3 feet wide and contains a vein about four inches wide accompanied by parallel quartz stringers. Mineralization consists of pyrite, sphalerite, galena and native gold. Shaft inclined 23°S put down to 73 feet by Howey, Cochenour and Willans in 1918
Holloway Tp., northwest part (McDermott Occurrence)	ODM Map 1953-4, north part of Holloway Tp. ODM 1953, Vol.62, pt.7, p.29-30	Au	Pyritized zone in Keewatin basalt strikes east. Pit to 14 feet, one drill hole 402 feet, optioned in 1949 by Sylvanite Gold Mines Ltd. and 11 holes 3,035 feet drilled
Holloway Tp., central part (McIntyre Occurrence)	ODM Map 1953-4, north part of Holloway Tp. ODM 1953, Vol.62, pt.7, p.30-31	Au	Keewatin basalt contains quartz veins, and pyritized zones. 1944-48 - ten holes 5,488 feet drilled by McIntyre Porcupine Mines Ltd.
Holloway Tp., southwest part Claim L7247 (Meridian Occurrence)	ODM Map 34a, Lightning River area ODM 1925, Vol.34, pt.6, p.95	Au	A narrow quartz vein in pyritized basalt was explored in 1919 by a shaft 45 feet deep
Holloway Tp., northeast part (Mining Corporation, East Group Occurrence)	ODM Map 1953-4, north part Holloway Tp. ODM 1953, Vol.62, pt.7, p.31	Au	Keewatin basalt, greywacke, and fault breccia were intersected in drilling; magnetic survey. Six holes 1,800 feet approx. drilled by The Mining Corporation of Canada Ltd.
Holloway Tp., northwest part Claims L11009-11010 and L12314 (O'Neill Occurrence)	ODM Map 1953-4, north part of Holloway Tp. ODM 1953, Vol.62, pt.7, p.32-33	Au	A porphyry dike cuts mafic volcanics and the dike and the adjacent wallrock are mineralized with quartz stringers containing pyrite and gold
Holloway Tp., N½ lot 8, con. III (Ramore Occurrence)	ODM Map 45d, Ramore area ODM 1935, Vol.44, pt.1, p.136 ODM 1936, Vol.45, pt.6, p.36	Au	A pyritized, syenite dike intrudes mafic volcanics and a pit 20 by 15 feet had been sunk to a depth of 15 feet. At 800 feet south of this occurrence a shaft 60 feet deep has been sunk in syenite. Work in 1934 by Ramore Gold Mining Company Ltd. (In Vol. 45, pt.6, called Ramore Gold Mines Ltd. in error)
Holloway Tp., northwest part (Remo Occurrence)	ODM Map 1953-4, north part of Holloway Tp. ODM 1953, Vol.62, pt.7, p.33	Au	Shear zone 10 feet wide in mafic metavolcanics contains quartz-carbonate stringers disseminated pyrite, and chalcopyrite and a grab sample assays 0.10 oz. Au/ton

Location	References	Metals	Remarks
Hoyle Tp., lot 9, con. II (Broulan Reef Occurrence)	ODM Map 48n, Bigwater Lake area ODM Resident Geologist, Timmins, File T-447	Au	Veins in basalt contained surface gold values from 0.12 to 0.37 oz. Au/ton and assays from drill core were 0.02 oz. and 0.12 oz. Au/ton. Six holes 2,014 feet by Broulan Reef Mines Ltd.
Hoyle Tp., central part, lots 9 and 10, con. II	ODM Map 48n, Bigwater Lake area	Au	Quartz vein in mafic volcanics up to 3 feet wide and 100 feet long contains native gold. Explored by 5 drill holes in 1937
Hoyle Tp., N½ lots 2 and 3, con. III (Hollinger Occurrence)	ODM Map 48n, Bigwater Lake area ODM 1939, Vol.48, pt.12, p.8-9	Au	Quartz stringers in carbonatized mafic volcanics contained gold values up to 0.10 oz. Au/ton. 1938 - drilling by Hollinger Consolidated Gold Mines Ltd. and Noranda Mines Ltd.
Hoyle Tp., S½ lot 9, con. I (Hoyle Occurrence)	ODM Map 48n, Bigwater Lake area ODM Map 47a, Porcupine area	Au	Mafic volcanics, sedimentary contact explored by three drill holes
Jamieson Tp., (location unknown, claim P8667 was in Deloro Tp.) (T. Jack Occurrence)	ODM Map 34f, Kamiskotia Lake area ODM Map P.20, Jamieson Tp. ODM 1925, Vol.34, pt.6, p.62	Au	Vein in mafic volcanics 1.5 feet wide exposed for a length of 120 feet well mineralized with pyrite and chalcopyrite. "Good assays" for gold are reported
Jamieson Tp., W½, S½ lot 12, con. I (G. Jamieson Occurrence)	ODM Map 53c, Robb-Jamieson area ODM Map P.20, Jamieson Tp. ODM 1943, Vol.52, pt.4, p.18-19	Au Ag	Vein in gabbro 2 to 6 feet wide and 400 feet long is well mineralized with sphalerite with small amounts of chalcopyrite and pyrite, contains up to 0.20 oz. Au/ton. Shear zone in gabbro and porphyry 8 feet wide and exposed for 200 feet contains quarts stringers, sphalerite, chalcopyrite, native silver and up to 0.13 oz. Au/ton
Jessop Tp., NW¼, N½ lot 7, con. I (M. Bartnett Occurrence)	ODM Map 48n, Bigwater Lake area ODM Map P.156, Murphy Tp. ODM 1939, Vol.48, pt.12, p.7	Au	Quartz veins up to 0.5 feet wide in mafic volcanics
Jessop Tp., part of lots 1 and 2, con. I (D. Heard Occurrence)	ODM Map 48n, Bigwater Lake area ODM Map P.158, Jessop Tp. ODM 1939, Vol.48, pt.12, p.7	Au	Shear zones in mafic volcanics are up to 5 feet wide and contain quartz stringers and a little pyrite, galena, chalcopyrite and pyrrhotite
Jessop Tp., N½ lot 5, con. III (R. Kennedy Occurrence)	ODM Map 48n, Bigwater Lake area ODM Map P.158, Jessop Tp. ODM 1939, Vol.48, pt.12, p.7	Au	Quartz-calcite veins in mafic volcanics are weakly mineralized with sulphides
Jessop Tp., N½ lot 5, con. II (G.A. Lefebvre Occurrence)	ODM Map 48n, Bigwater Lake area ODM Map P.158, Jessop Tp. ODM 1939, Vol.48, pt.12, p.7	Au	Narrow quartz-carbonate veins in mafic volcanics are weakly mineralized with sulphides with grab samples assaying up to 0.06 oz. Au/ton
Jessop Tp., SW¼, S½ lot 10, con. I (C.W. Pexton Occurrence)	ODM Map 48n, Bigwater Lake area ODM Map P.158, Jessop Tp. ODM 1939, Vol.48, pt.12, p.7	Au	Quartz carbonate veins in mafic volcanics are up to 0.25 feet wide and 20 feet long and contain "low values" in gold
McCool Tp., W½, N½ lot 10, con. III (Gabbro Occurrence)	ODM Map 1952-2, McCool Tp. ODM 1952, Vol.61, pt.5, p.28	Au	Quartz stringers in a zone 20 feet wide in carbonatized gabbro cut by a porphyry dike have been explored by trenching. A grab sample assayed a trace of gold
McCool Tp., NW¼, S½ lot 3, con. III (Pillow Lava Occurrence)	ODM Map 1952-2, McCool Tp. ODM 1952, Vol.61, pt.5, p.28	Au	Quartz vein ½ inch wide in mafic volcanics contains pyrite and galena and has been explored by a pit
McCowan Tp. (Southeast McCowan Occurrence)	ODM Map 2166, Hearst-Kapuskasing Sheet ODM MP10, p.57	Au	Quartz veins contain chalcopyrite, arsenopyrite, galena and gold in pyritized greywacke. Work in 1940 and 1948
Macklem Tp., west central part 30 unsurveyed claims extending west from Hand Island (Auconda Occurrence)	ODM Map P.546, Macklem Tp. ODM 1969, Open File Rept. 5037, p.53	Au	Magnetic survey and 10 drill holes 7,792 feet by Auconda Porcupine Gold Mines Ltd.
Macklem Tp., southern part 15 unpatented claims (Black Hawk Occurrence)	ODM Map P.546, Macklem Tp. ODM 1969, Open File Rept. 5037, p.54	Au	Magnetic and geological surveys, trenching, possibly drilling by Black Hawk Porcupine Mines Ltd.
Macklem Tp., formerly held 44 unsurveyed claims adjacent to East Peninsula (Broulan Reef Occurrence)	ODM Map P.546, Macklem Tp. ODM 1969, Open File Rept. 5037, p.54-55	Au	Magnetic survey, 3 drill holes by Broulan Reef Mines Ltd.
Macklem Tp., east of East Peninsula Claims P18373-18378 (Clemens Occurrence)	ODM Map P.546, Macklem Tp. ODM 1969, Open File Rept. 5037, p.57	Au	1937 - 2 drill holes 1,088 feet by McIntyre Porcupine Mines Ltd. 1940 - Possibly drilling by Ronnoco Gold Mines Ltd.

Location	References	Metals	Remarks
Macklem Tp., central and northeast held 42 unsurveyed claims (Electra Occurrence)	ODM Map P.546, Macklem Tp. ODM 1969, Open File Rept. 5037, p.79 ODM Resident Geologist, Timmins, File T-7	Au	1944-47 - 20 holes by Electra Porcupine Gold Mines Ltd. and New Electra Porcupine Gold Mines Ltd. Zone of strongly carbonatized Keewatin basalt explored
Macklem Tp., northeast corner Claims P255554-25562 (Moran Occurrence)	ODM Map P.546, Macklem Tp. ODM 1969, Open File Rept. 5037, p.76 ODM Resident Geologist, Timmins, File T-131	Au	1930 - Drilling on P25558 by Electra Porcupine Gold Mines Ltd. 1944 - Magnetic survey, 3 holes 2,970 feet by Broulan Reef Mines Ltd. Highest assay 0.06 oz. Au/ton
Macklem Tp., adjacent to south boundary Claims P7764, P8858, P8940 etc. (Porcupine McNabb Occurrence)	ODM Map P.546, Macklem Tp. ODM 1969, Open File Rept. 5037, p.83 ODM 1940, Vol.49, pt.4, p.17-18	Au	1938 - Stripping, trenching, diamond drilling and bulk sampling by Porcupine McNabb Gold Mines Ltd. Gold content is low in a zone of carbonatized Keewatin basalt and agglomerate
Matheson Tp., NW¼ lot 2, con. II (Claim P9608 Occurrence)	ODM Map 48n, Bigwater Lake area ODM 1939, Vol.48, pt.12, p.9	Au	Vein in greywacke contains pyrite, explored by shaft to 50 feet about 1915 and by some diamond drilling
Michaud Tp., part of lots 1, 2, 3, 4 and 5, con. III and IV (Anglo-Huronian Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.19	Au	1944-46 - magnetic survey and 7 drill holes 1,762 feet by Anglo-Huronian Ltd. Felsic intrusives and mafic volcanics contained low gold values
Michaud Tp., S½, W½ lot 1, con. III (Caswell Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.19-20	Au	1946-48 - three holes with a total length of 3,777 feet drilled by Wright-Hargreaves Mines Ltd. Gold values are present in mineralized sections of argillite and conglomerate
Michaud Tp., part of lots 2, 3, 4 and 5, con. IV and V (Clodan Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.20	Au	1946 - magnetic survey by Clodan Gold Mines Ltd. No outcrops on property
Michaud Tp., part of lots 10, 11 and 12, con. II and III (Dunmar Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.20	Au	1947 - seven holes 4,861 feet drilled by Dunmar Mines Ltd. Felsic intrusives are mineralized with pyrite and contain quartz stringers with low gold values
Michaud Tp., N½ lot 12, con. V etc. (Kokotow Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.21	Au	Pits in mafic volcanics cut by dikes of syenite porphyry put down by A. Kokotow. Pyritized porphyry and basalt contain quartz stringers and low values in gold
Michaud Tp., part of lots 5, 6, 7, 8 and 9, con. II and III (Marchaud Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.21-22	Au	Trenching, magnetic survey and 24 drill holes 15,612 feet by Hoyle Mining Company Limited in 1946 and 1947. Felsic intrusives with inclusions of mafic volcanics contain erratic values in gold
Michaud Tp., part of lots 6, 7, 8 and 9, con. III and IV (Michaud Porcupine Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.22-23	Au	1937-38 - magnetic survey and 11 drill holes 4,838 feet by Michaud Porcupine Mines Ltd. 1946 - drilling by Michaud Porcupine Mines Ltd. and Anglo-Huronian Ltd. Quartz veins in granite contain low values in gold
Michaud Tp., part of lots 2, 3 and 4, con. II and III (Miller Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.23	Au	Mafic volcanics with an associated carbonate rock are cut by porphyry dikes. The quartz-carbonate zone is known to be 2,600 feet long and up to 300 feet wide and contains erratic gold values. 1946-47 - fifteen drill holes 11,402 feet by Moneta Porcupine Mines Ltd.
Michaud Tp., part of lots 9, 10, 11 and 12, con. III and IV (Transaurum Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.57, pt.4, p.23-24	Au	Mafic volcanics are cut by major felsic intrusives and both rock types by porphyry dikes. 1946-47 - six drill holes by Transaurum Mines Ltd. Parts of the intrusive have a reddish alteration and contain quartz stringers and pyrite
Michaud Tp., part of lots 5 to 12, con. I and II (Wright-Hargreaves Occurrence)	ODM Map 1947-3, Michaud Tp. ODM 1948, Vol.47, pt.4, p.24-25	Au	Mafic volcanics and greywacke are cut by syenite dikes. Ten drill holes with a total length of 8,712 feet were put down by Wright-Hargreaves Mines Ltd. in 1947
Mountjoy Tp., lots 1 and 2, con. IV (Anaconda Occurrence)	ODM Map P.22, Mountjoy Tp. ODM Resident Geologist, Timmins, Files	Au	Geological survey and 4 drill holes by Anaconda Company (Canada) Ltd. in 1945. Quartz veins and stringers were encountered in drilling with the highest value 0.04 oz. Au/ton over a length of 1.2 feet
Mountjoy Tp., lots 1 and 2, con. I and S½ lot 2, con. II (Carlmac Occurrence)	ODM Map P.22, Mountjoy Tp. ODM Resident Geologist, Timmins, Files	Au	Nineteen drill holes by Carlmac Gold Mines Ltd. in 1946. Some quartz-carbonate veins and stringers with the highest value 0.03 oz. Au/ton over a length of one foot

Location	References	Metals	Remarks
Mountjoy Tp., S½ lots 7, 8 and 9, con. IV (Lundberg Occurrence)	ODM Map P.22, Mountjoy Tp. ODM Resident Geologist, Timmins, Files	Au	Geological and electromagnetic surveys and 4 drill holes by Hans Lundberg Ltd. in 1940. Quartz-carbonate vein with the highest assay 0.08 oz. Au/ton over a length of 2 feet
Mountjoy Tp., lot 11, con. VI (Perron Occurrence)	ODM Map P.22, Mountjoy Tp. ODM Resident Geologist, Timmins, Files	Au	A quartz vein in mafic volcanics 14 inches wide contains up to 0.01 oz. Au/ton and carbonate iron formation 0.75 feet thick contains 0.01 oz. Au/ton. Surface work in 1945 by Paymaster Consolidated Mines Ltd.
Mountjoy Tp., N½ lots 2, 3, 4 and 5, con. I and S½ lots 2, 3 and 4, con. II (H.M. Roberts Occurrence)	ODM Map P.22, Mountjoy Tp. ODM 1924, Vol.33, pt.2, p.25 ODM Resident Geologist, Timmins, Files	Au	In 1922, 30 vertical drill holes were put down through the overburden into the bedrock by H.M. Roberts. In 2 or 3 holes traces of gold were encountered in the bedrock and there is no mention of gold in the overburden
Mountjoy Tp., NW¼, N½ lot 3, con. I (Western Lands Occurrence)	ODM Map P.22, Mountjoy Tp. ODM Resident Geologist, Timmins Files	Au	Three drill holes put down in 1939 by Western Lands. Quartz veins and stringers in two of the drill holes contained 0.02 oz. Au/ton over lengths from 1.5 to 3 feet
Munro Tp., NE¼, S½ lot 10, con. III (Big Game Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.45-46	Au	Vein in Matachewan diabase is 50 feet long by 2 feet wide explored by a shaft 20 feet deep. A grab sample assayed 0.01 oz. Au/ton
Munro Tp., N½ lot 7, con. I (Buff-Munro Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.47	Au	Quartz-carbonate vein contains sphalerite, galena and pyrite. 1916-17 - Shaft to 40 feet by Buff-Munro Mines Ltd. 1929 - Shaft deepened to 100 feet and 50 feet of crosscutting by Buff-Munro Gold Mines Ltd.
Munro Tp., W½, S½ lot 4, con. II (Camrose Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.47-48	Au	Vein 6 inches wide is exposed for 300 feet in mafic volcanics. Two pits explored the vein. 1949 - Geological and magnetic survey by Mining Geophysics Corp. Ltd.
Munro Tp., SE¼, N½ lot 8, con. II (A.G.C. Dinnick Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.48	Au	Quartz vein 5 feet wide in mafic volcanics explored by a shaft of unknown depth
Munro Tp., SW¼, S½ lot 9, con. II (King Midas Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.48	Au	Quartz veins in carbonatized felsic volcanics have been explored by pits
Munro Tp., NW¼, N½ lot 11, con. II (Northern Gold Belt Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.51-52	Au	Quartz veins in mafic and felsic lavas are mineralized with pyrite and arsenopyrite. 1921 - Matheson Gold Ltd. 1926 - Matheson Mining Syndicate -- Northern Gold Belt Mining Co. Ltd. 1956 - New Northern Gold Belt Gold Mines Ltd.
Munro Tp., lots 1 and 2, con. III etc. (Reoplata Placer Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1952, Vol.61, pt.2, p.69 Survey of Mines 1954, p.250	Au	1951-53 - The placer gold content of sands was tested by sluicing by a small pilot mill and by drilling. Sampling indicated gold values ranging from trace to 0.04 oz. Au/ton. Work by Reoplata Mines Ltd.
Munro Tp., NE¼, N½ lot 7, con. II (W.T. Stewart Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.52	Au	A quartz-carbonate vein in mafic volcanics contains arsenopyrite. A grab sample assayed 0.18 oz. Au/ton. Shaft to 20 feet sunk by Young-Munro Gold Mines Ltd.
Munro Tp., NW¼, lot 8, con. I, etc. (Walhart Gold Mines Ltd.	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.52	Au	Quartz stringers are present in a zone of carbonatized basalt 40 feet wide and are mineralized with pyrite and arsenopyrite. Explored by 10 diamond drill holes
Munro Tp., N½ lot 7, con. IV (P.B. Zevely Occurrence)	ODM Map 1951-5, Munro Tp. ODM 1951, Vol.60, pt.8, p.56	Au	Quartz stringers, veins, and sulphides in a porphyry dike and in mafic volcanics have been explored by pits and five drill holes
Murphy Tp., N½ lot 4, con. IV (J. Helmer Occurrence)	ODM Map 48n, Bigwater Lake area ODM Map P.255, Murphy Tp. ODM 1939, Vol.48, pt.12, p.8	Au	A quartz-carbonate vein up to one foot wide in greywacke and slate in weakly mineralized sulphides
Noseworthy Tp., at rapids east side of Burntbush River (Cyril Knight Occurrence)	ODM Map 45e, Burntbush River area ODM 1936, Vol.45, pt.6, p.62-63	Au	Shear zone in rhyolite 6 feet wide 0.05 oz. Au/ton. 1931-33 - stripping and trenching by Cyril Knight Prospecting Company

Location	References	Metals	Remarks
Ogden Tp., northeast part Claim TC603 (P8291) (Big Dyke Occurrence)	ODM Map 47a, Porcupine area ODM 1922, Vol.31, pt.10, p.31	Au	1921 - Adit 115 feet by Big Dyke Gold Mines Ltd.
Ogden Tp., southwest part, cancelled claim P3785 etc. (Brabar Occurrence)	ODM Map 35g, Carscallen, Bristol and Ogden Tps. ODM Map P.341, Ogden Tp. ODM 1926, Vol.35, pt.6, p.28 ODM 1967, Open File Rept. 5012, p.86	Au	1941 - Surface work by Wasu Mines Ltd. 1946-47 - 7 drill holes 6,000 feet by Wasu Porcupine Mines Ltd. 1965 - Magnetic and electromagnetic surveys by Brabar Mines Ltd. Two zones each 15 feet wide in Keewatin carbonatized basalt contain quartz-carbonate veins
Ogden Tp., northeast part Claim P6984 (Flynn Occurrence)	ODM Map 35g, Carscallen, Bristol and Ogden Tps. ODM 1926, Vol.35, pt.6, p.25	Au	A quartz stringer in Keewatin basalt contains 0.08 oz. Au/ton over a width of six inches
Ogden Tp., southeast part Claims TRS1114 and claim TRS1115 partly in Deloro Tp. (M.S. Mitchell Occurrence)	ODM Map P.341, Ogden Tp. ODM 1926, Vol.35, pt.6, p.26-27 ODM 1967, Open File Rept. 5012, p.84	Au	Keewatin iron formation contains quartz stringers, pyrite and native gold
Ogden Tp., east-central part Showings on claims TRS1164 and HS839 (Owens Acne Occurrence)	ODM Map P.341, Ogden Tp. ODM 1926, Vol.35, pt.6, p.26	Au	Keewatin iron formation and rhyolite contain quartz lenses 1 to 3 feet wide which contain gold
Ogden Tp., southeast part, 4,400 feet northwest of 2-mile post (Paradis Creek Placer Occurrence)	ODM Map 47a, Porcupine area	Au	The word "placer" is written on the map and a small cross on Paradis Creek indicates the locality
Ogden Tp., southeast part Showing on claim P7615 (Penn Occurrence)	ODM Map 47a, Porcupine area ODM 1926, Vol.35, pt.6, p.27	Au	Quartz vein 400 feet long and up to 2 feet wide occurs in carbonate schist adjacent to serpentinite
Ogden Tp., southeast part Shaft on claim TRS1179 (Ridgedome Occurrence)	ODM Map 47a, Porcupine area ODM 1926, Vol.35, pt.6, p.26 ODM 1930, Vol.39, pt.1, p.122	Au	1926 - Shallow shaft, 200 feet of drilling by Porcupine Quill Mining Co. Ltd. 1929 - Shaft with level at 125 feet and 70 feet of crosscutting by Ridgedome Mines Ltd. Vein 2 feet wide and 150 feet long contains low values in gold
Ogden Tp., southwest part, cancelled claim P59347 (Tex-Sol Occurrence)	ODM Map P.341, Ogden Tp. ODM 1967, Open File Rept. 5012, p.87	Au	1964-65 - Magnetic and electromagnetic surveys, 3 drill holes 1,100 feet by Tex-Sol Explorations Ltd. In one drill hole in serpentinite three 5-foot sections that assayed 0.35 oz/ Au/ton
Ogden Tp., central part Claims ME47 (P18122) etc. (Thomas Ogden Occurrence)	ODM Map P.341, Ogden Tp. ODM 1926, Vol.35, pt.6, p.27 ODM 1967, Open File Rept. 5012, p.82	Au	Geological mapping and 6 drill holes 6,400 feet by Thomas Ogden Gold Mining Co. Ltd. The best assay was 0.22 oz. Au/ton over a core length of 5 feet
Playfair Tp., NE¼, S½ lot 9, con. IV (Mobb Occurrence)	ODM Map 45d, Ramore area ODM 1922, Vol.31, pt.7, p.20	Au Ag	Syenite dikes intrude mafic volcanics and three parallel quartz-calcite veins are mineralized with pyrite, chalcopyrite and molybdenite. The best assay was 3 oz. Au/ton and 9 oz. Ag/ton over a width of 4 feet. Trenching by Frederick Mobb in 1909
Playfair Tp., S½ lot 13, con. IV (Noranda Occurrence)	ODM Map 45d, Ramore area ODM 1936, Vol.45, pt.6, p.36-37	Au	Zone of quartz stringers 400 feet long and up to 15 feet wide in mafic volcanics. Trenching and diamond drilling before 1935 by Noranda Mines Ltd.
Playfair Tp., lot 8, con. III (Ramore Occurrence)	ODM Map 45d, Ramore area ODM 1936, Vol.45, pt.6, p.36	Au	Shaft 70 feet deep, pit 15 feet deep in syenite containing quartz stringers and mineralized with pyrite and gold
Robb Tp., south of Kamiskotia Lake Claim P8955 (Big Dutchman Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.19, Robb Tp. ODM 1925, Vol.34, pt.6, p.59	Au	Vein 5 feet wide and 280 feet long in gabbro is mineralized with pyrite
Robb Tp., south of Kamiskotia Lake Claim P9198 (Hill-Haggquist Occurrence)	ODM Map 53c, Robb-Jamieson area ODM Map P.19, Robb Tp. ODM 1925, Vol.34, pt.6, p.58-59 ODM 1944, Vol.53, pt.4, p.14	Au	Gold occurs in stockwork of quartz veins and in minute fractures in a granite stock. P. Luisakoff, D. Hill and D. Haggquist did surface prospecting in 1920 to 1923. In 1924 sampling by Homestake Mining Company and later a small amount of drilling by Hollinger Consolidated Gold Mines Ltd.
Robb Tp., claims P6501, 6503, 18212 (G. Jamieson Occurrence)	ODM Map 53c, Robb-Jamieson area ODM 1944, Vol.53, pt.4, p.13-14	Au	Trenching and 3 prospect shafts said to be 40 feet deep. Stockwork of quartz veins in apatite and gabbro contain pyrite, chalcopyrite and native gold
Robb Tp., south boundary Claim P6010 etc. (G. Jamieson Occurrence)	ODM Map 53c, Robb-Jamieson area ODM Map P.19, Robb Tp. ODM 1925, Vol.34, pt.6, p.59	Au	A quartz vein mineralized with pyrite and native gold occurs in a porphyry intrusive, explored by two pits

Location	References	Metals	Remarks
Robb Tp., south of Kamiskotia Lake Claims P6501-6502 etc. (G. Jamieson Occurrence)	ODM Map 53c, Robb-Jamieson area ODM Map P.19, Robb Tp. ODM 1925, Vol.34, pt.6, p.58 ODM 1944, Vol.53, pt.4, p.13-14	Au	Stockworks of quartz veins are present in aplite dikes which intrude gabbro. Mineralization consists of pyrite, chalcopyrite and native gold. Exploration by trenching, 3 prospect shafts, some drilling by G. Jamieson. Circa 1946 prospecting and geological mapping by The Mining Corporation of Canada Ltd.
Robb Tp., 330 feet northwest of 17-mile post on south boundary (Seventeen Mile Post Boulder Occurrence)	OBM 1915, Vol.24, pt.3, p.60	Au	A mass of float weighing several tons was found by prospectors and broken up. A sample from the oxidized boulder assayed 0.28 oz. Au/ton
Shaw Tp., part of lots 2, 3, 4, SW¼, S½ lot 3, con. IV, etc. (Anshaw Occurrence)	ODM Map P.343, Shaw Tp. ODM 1967, Open File Rept. 5012 Assessment Work Library, Toronto, File 63-97	Au	A boulder of iron formation assayed 0.15 oz. Au/ton
Shaw Tp., northeast part, showings on claim HR807, shaft on claim HR809 (Bay Lake Occurrence)	ODM Map P.343, Shaw Tp. ODM 1967, Open File Rept. 5012, p.107A-109	Au	1925 - Two shafts each 60 feet by Porcupine Hudson Bay Mines Ltd. 1940-41 - Bulk sampling by Sylvanite Gold Mines Ltd. A quartz stockwork in Keewatin felsic and mafic rocks is 340 feet long and 15 feet wide
Shaw Tp., north-central part Claims P9497, 9498 and P11743 (Esther Occurrence)	ODM Map 47a, Porcupine area ODM 1967, Open File Rept. 5012, p.111	Au	Quartz stringers containing native gold occurs in a carbonatized and pyritized zone in Keewatin basalt
Shaw Tp., S½ lot 1, con. V, etc. (Kensull Occurrence)	ODM Map P.343, Shaw Tp. ODM 1967, Open File Rept. 5012, p. 111, 114 Assessment Work Library, Toronto, Files 63-154, 63-1217	Au	The best assay obtained in drilling in Keewatin basalt was 0.04 oz. Au/ton over a core length of 5 feet
Sheraton Tp., N½ lot 12, con. II (Armont Occurrence)	ODM Map 49h, Langmuir-Sheraton area ODM 1940, Vol.49, pt.4, p.11 ODM 1969, Open File Rept. 5037, p.52	Au	Quartz vein in Keewatin basalts and fragmental rocks is up to 1 foot wide and extends for 700 feet. 1935 - Some drilling by Goward Gold Mines Ltd. 1936 - Held by Armont Gold Mines Ltd.
Sheriton Tp., S½ lot 4, con. VI, etc. (J.P. Roy Occurrence)	ODM Map 49h, Langmuir-Sheraton area ODM 1940, Vol.49, pt.4, p.12	Au	Mafic volcanic rocks and fragmental rocks are cut by porphyry dikes and by diabase. Quartz stringers and adjacent wallrock are mineralized with pyrite and a picked sample assayed 0.32 oz. Au/ton
Steele Tp., lot 3, con. B (Big Pete Occurrence)	ODM Map 2018, Steele, Bonis and Scapa Tps. ODM 1962, GR8, p.44	Au	Porphyry dike in amphibolite contains quartz stringers that assay 0.059 oz. Au/ton. Work by Big Pete Mining Company in 1909
Stock Tp., 28 claims, mineralized zone on lot 12, con. VI (Clavos Occurrence)	ODM Map P.38, Stock Tp. Survey of Mines 1947, p.169 ODM Resident Geologist, Timmins, File T-29	Au Ag	1945-46 - Magnetic survey, 34 holes 15,250 feet by Clavos Porcupine Mines Ltd. Gold mineralization was present in carbonatized basalt and argillite adjacent to the Pipestone Fault. The mineralized zone was 500 feet long with the best assays $18.70 (0.54 oz.) over 10.6 feet and $85.75 (2.45 oz.) over 5.7 feet
Taylor Tp., S½ lot 7, con. III (Turney Occurrence)	ODM Map 2046, Taylor Tp. ODM Resident Geologist, Timmins, Files	Au	Gold-bearing quartz vein, the Destor-Porcupine Fault Zone has been explored by drilling
Thackeray Tp., north boundary Claim L35447, 35448 (Garthack Occurrence)	ODM 1949, Vol.58, pt.4, p.25-26 ODM 1925, Vol.34, pt.6, p.98	Au	No. 1 zone consists of quartz stringers in mafic volcanics two feet wide and exposed for 300 feet. Mineralization consists of pyrite, chalcopyrite, hematite and up to 0.12 oz. Au/ton. In 1947 three holes drilled by Garthack Mining Co. Ltd.
Thomas Tp., southeast part Held cancelled claim P17891, etc. (Armont Occurrence)	ODM Map P.547, Thomas Tp. ODM 1940, Vol.49, pt.4, p.11 ODM 1969, Open File Rept. 5037, p.52 ODM Resident Geologist, Timmins, File T-277	Au	Porphyry dike 4 feet wide contains quartz stringers with a low gold content. 1935 - 12 drill holes 1,000 feet by Goward Gold Mines Ltd. 1936 - Held by Armont Gold Mines Ltd.
Thomas Tp., northwest corner (Kimasca Occurrence)	ODM Map P.547, Thomas Tp. ODM 1969, Open File Rept. 5037, p.69	Au	1946 - Magnetic survey and three drill holes by Kimasca Porcupine Mines Ltd. Granite dikes intrude Keewatin basalt and agglomerate but the gold content was low
Thomas Tp., near north boundary (Markay Occurrence)	ODM Map P.547, Thomas Tp. ODM 1969, Open File Rept. 5037, p.72-73 ODM Resident Geologist, Timmins, Files T-272, T-1133	Au	1923 - Trenching and sampling 1965 - Magnetic and electromagnetic surveys, 3 holes 1,487 feet by Markay Mining Corp. Ltd.

Location and Name	References	Metals	Remarks
Thomas Tp., southwest part adjacent to west boundary Cancelled claim P7535, etc. (Muir Occurrence)	ODM Map P.547, Thomas Tp. ODM Map 49h, Langmuir-Sheraton area ODM 1969, Open File Rept. 5037, p.77	Au	Granitic dikes cut Keewatin basalts and contain quartz stringers and a vein up to 10 feet wide contains sulphides and a low content of gold
Thomas Tp., central part Shaft on cancelled claim P7583 (Thomas Occurrence)	ODM Map P.547, Thomas Tp. ODM 1940, Vol.49, pt.4, p.11 ODM 1969, Open File Rept. 5037, p.90-91	Au	1922 - Shaft to 25 feet and drilling by Thomas Gold Mining Co. Ltd. A mineralized felsite dike containing quartz stringers cuts Keewatin basalt and agglomerate
Tisdale Tp., SW½, N½ lot 12, con. IV (Ellies Occurrence)	ODM Map 2075, Tisdale Tp. ODM 1968, GR58, p.98	Au	A quartz vein 2 to 3 feet wide in Keewatin argillite was exposed in a pit
Tisdale Tp., N½ lot 8 and 9, con. V and lot 8 and E½, S½ lot 9, con. VI (Hollinger Placer Occurrence)	ODM Map 2075, Tisdale Tp. ODM 1968, GR58, p.165	Au	1953-55 - the placer gold content of sand and gravel used for mine backfill ranged from less than one cent to 8 cents per ton
Tisdale Tp., southwest part, part of lots 10, 11, 12, con. I and adjacent claims Deloro Tp. (Kayorum Occurrence)	ODM Map 2075, Tisdale Tp. ODM Map P.342, Deloro Tp. ODM 1968, GR58, p.118-122	Au	Quartz-ankerite veins up to two feet wide in basalt contain erratic gold mineralization. 1937 - Explored by drilling by Kayorum Gold Mines Limited, subsidiary of Hollinger Mines Ltd.
Tisdale Tp., S½ lot 9, con. I (Porcupine Goldtop Occurrence)	ODM Map 2075, Tisdale Tp. ODM 1968, GR58, p.141-142	Au	Trenching and pitting, geological and magnetic surveys, 9 holes 3,000 feet drilled in 1944. Property now held by Porcupine Goldtop Mines Ltd. and formerly held by Porcupine Goldor Mines Ltd. Claims formerly held by Porcupine Reserve Mines Ltd., The Bellbirk Porcupine Mines Ltd., Crown Chartered Gold Mining Co. of Porcupine Lake, and Sovereign Loan Syndicate
Turnbull Tp., near northeast corner Claim P5489 (American Porcupine Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.6, p.60 OBM 1915, Vol.24, pt.2, p.60	Au	Vein up to 2 feet wide in gabbro consists of quartz, carbonate, pyrite and chalcopyrite with "low values in gold". Formerly called the Christman or Herdt Claim
Turnbull Tp., southwest part Claim P1152 (T. Devanney Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.6, p.60	Au	Shear zone 6 feet wide in diabase extends for 300 feet and contains quartz-carbonate stringers, disseminated pyrite and assays up to 0.35 oz. Au/ton
Turnbull Tp., claim P8192 (Evans Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.6, p.61	Au	Gold occurs in quartz veins in porphyry and trenches have been excavated
Turnbull Tp., northeast part Claim P14611 (Gibson Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.4, p.61	Au	A quartz vein in granite contains native gold
Turnbull Tp., south boundary near southeast corner. Claim P10875 (Hughes Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.6, p.60-61	Au	Quartz stringers in porphyry contain native gold
Turnbull Tp., southwest part Claim P10758 (Labrosse Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.6, p.61	Au	A quartz vein in diabase is 25 feet wide and 165 feet long contains pyrite and "low values in gold"
Turnbull Tp., northeast part Claim P9779 (Lally Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.6, p.61	Au	Veins containing native gold strike north and form a stockwork in porphyry. In 1914 shafts to 40 feet and 60 feet by Lally Gold Mines Ltd.
Turnbull Tp., southwest part Claim P8799 (Leduc Occurrence)	ODM Map 34f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.6, p.60	Au	A shear zone in a granite dike contains lenses of quartz, pyrite and chalcopyrite and assays up to 0.30 oz. Au/ton
Turnbull Tp., southwest part Claims P8938-8939 (Levett and Rialta Occurrence)	ODM Map P.21, Turnbull Tp.	Au	No description available, claims held circa 1957 by Levett and Rialta Co.
Turnbull Tp., location unknown (Northern Turnbull Occurrence)	ODM Map P.21, Turnbull Tp. Canadian Mines Handbook, 1937, p.352 ODM Statistical Files, Northern Turnbull Gold Mines Ltd.	Au	Northern Turnbull Gold Mines Ltd. held 4 claims obtained from Turnbull Porcupine Gold Syndicate. In 1934 produced 5 oz. of gold valued at $172 from milling 30 tons

Location	References	Metals	Remarks
Turnbull Tp., adjacent to Christmas Lake. Claim P10346 (Porcupine Western Occurrence)	ODM Map 43f, Kamiskotia Lake gold area ODM Map P.21, Turnbull Tp. ODM 1925, Vol.34, pt.6, p.60	Au	An irregular zone of pyritized mafic volcanics contains quartz stringers and is mineralized with gold. Held in 1924 by Porcupine Western Gold Mines Syndicate
Turnbull Tp., southwest part Claim P11995 (Staten Porcupine Occurrence)	ODM Map P.21, Turnbull Tp.	Au	Pit or shaft on property, no description of occurrence. Staten Porcupine Gold Mines Ltd. incorporated 1947
Walker Tp., N½ lot 10, con. II (Silver Foam Occurrence)	ODM Map P.103, Walker Tp. OBM 1919, Vol.28, pt.2, p.63	Au	Quartz-carbonate-epidote-axinite veins are weakly mineralized with pyrite. A vertical shaft to 60 feet on an inclined shaft to 60 feet by the Silver Foam Mining Company before 1919
Whitesides Tp., southwest part Claim P2785 (Union Occurrence)	ODM Map 40c, Groundhog-Kamiskotia area ODM Map P.488, Whitesides Tp. ODM 1931, Vol.40, pt.3, p.34	Au	Zone 60 feet wide and 400 feet long in mafic volcanics contains quartz stringers, carbonates, pyrite, pyrrhotite and chalcopyrite. Shaft to 230 feet sunk in 1921 by Union Mine and Trust Co.
Whitney Tp., S½, S½ lot 8, con. V etc. (Bobs Lake Occurrence)	ODM Map P.9, Whitney Tp. Survey of Mines 1950, p.169	Au	1946-48 - Geophysical survey and drilling by Bobs Lake Gold Mines Ltd.
Whitney Tp., southwest part (Chappie-Mammoth Occurrence)	ODM Map 47a, Porcupine area Canadian Mines Handbook 1937, p.56	Au	1936 - 9,214 feet of drilling by Mammoth Porcupine Gold Syndicate. 1922 - Mammoth Porcupine Mines Ltd. 1934 - Chappie-Mammoth Gold Mines Ltd.
Whitney Tp., southwest part (MacDougall Occurrence)	ODM Map 47a, Porcupine area Survey of Mines 1941-42, p.115	Au	1936 - 7 holes 5,000 feet cross sectional drilling. 1936 - MacDougall Porcupine Gold Mines Ltd.
Whitney Tp., part of N½ lots 9 and 11, con. V and S½ lots 9 and 10, con. VI (Rollex Occurrence)	ODM Map P.9, Whitney Tp., northwest part Survey of Mines 1968, Map M.14 Mineral Resources Branch, Files	Au	1960 - Five drill holes by Rollex Mines Ltd. Core from one hole from 290.0 to 292.5 feet assayed 0.94 oz. Au/ton (Mineral Resources Branch, Ottawa, file Rollex (Vet) Claims)
Whitney Tp., shaft NE¼, N½ lot 8, con. I (Two-In-One Occurrence)	ODM Map 47a, Porcupine area ODM 1924, Vol.33, pt.7, p.64-65 Survey of Mines 1946, p.160	Au	1923 - Shaft 55 feet, lateral work 82 feet and test pits by Two-In-One Gold Mines Ltd. 1944 - Diamond drilling by Troup Porcupine Mines Ltd. (charter cancelled 1958). 1910 - Held by United Porcupine Gold Mines Ltd. and also by Royal Porcupine Mines Ltd.
Wilkie Tp., S½ lot 4, con. I, etc. (Wilcarr Occurrence)	ODM Map 1951-1, Carr Tp. ODM Map P.156, Wilkie Tp. ODM 1951, Vol.60, pt.4, p.21	Au	Quartz veins in mafic volcanics near a felsic intrusive contain pyrite and chalcopyrite and a grab sample assayed 0.01 oz. Au/ton. During 1944 and 1945 magnetic survey and 13 drill holes by Wilcarr Mines Ltd. Six claims of the property obtained in 1944 from Wilkie Mines Ltd.
Lat.48°45', Long.79°45' South of Squaw Point on Lower Abitibi Lake (Claim TP43 Occurrence)	OBM Map, Lower Abitibi area OBM 1909, Vol.18, pt.1, p.270	Au	A quartz vein in granite up to 2 feet wide contains pyrite and chalcopyrite and assays 0.2 oz. Au/ton. A shaft 13 feet deep was put down by the Mosher brothers in 1908
Lat.48°45', Long.79°45' Lower Abitibi Lake Island BG173 south of Island BG174 (Shaft Island Occurrence)	OBM Map, Lake Abitibi area OBM 1909, Vol.18, pt.1, p.268-269 OBM 1907, Vol.16, pt.1, p.219-220	Au	1907 - Shaft sunk to 75 feet on a vein which varies from a few inches up to 4 feet wide. The quartz-calcite vein contains pyrite, pyrrhotite and chalcopyrite and the grade is reported to be "high". Work by the Mosher brothers. 1959-60 - Property held by Candore Explorations Ltd.

KENORA DISTRICT

ECHO TOWNSHIP

Conecho Prospect

Main Metals: Au.

Location: South-central part of Echo Township, to the northwest of Newlund and Windward Prospects.
Map Reference: ODM Map 1950-1, Township of Echo.

Geology: Intermediate to mafic metavolcanics have been intruded by granodiorite dike dipping 75°SE. Coarse visible gold and associated pyrite occur in quartz filled fractures on either side of the dike, but assay results are not available.

History: 1946: Small amounts of diamond drilling. Work by J.P. Arnott. 1950-52: About 257 feet of drifting and 468 feet of crosscutting from the 200-foot level of the Newlund Prospect and 28 diamond drill holes totalling 2,659 feet. Work by Conecho Mines, labour supplied by Newlund Mines Ltd.

References: ODM Vol.59, pt.5, p.36-37.
ODM P.R.1951-1, p.5-6.
ODM Vol.62, pt.2, p.19.

Lun-Echo Prospect

Main Metals: Au.

Location: The claims occur across the southern part of the boundary between Echo and Pickerel Townships, to the north of Franciscan Lake and to the west of the Pickerel Arm of Minnitaki Lake.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Northeast-trending felsic to mafic metavolcanics have locally been intruded by quartz-feldspar porphyry. A granodiorite dike in the northeast part of the property was traced for 1,400 feet and yielded a value of 0.30 ounces of gold over 5 feet; a parallel granodiorite dike with quartz filled fractures, pyrite mineralization and gold values is located to the south.

Ownership: Lake Shore Mines Ltd., a subsidiary of the Little Long Lac Gold Mines Ltd.

History: 1940's: Prospecting including trenching, stripping and magnetometer survey by Mosher Long Lac Mines Ltd.
1950-51: Surface work and 8,337 feet of diamond drilling. Work by Lun-Echo Mines Ltd.

References: Canadian Mines Handbook 1946, p.210
Canadian Mines Handbook 1949, p.144
Canadian Mines Handbook 1950, p.120
ODM Vol.59, pt.5, p.36
ODM P.R.1951-1, p.7
Canadian Mines Handbook 1969-70, p.205.

Newlund Prospect

Main Metals: Au.

Location: 25 miles SW of Sioux Lookout, Echo Township; 44 claims part of lots 2 and 3 con. II, lot 4 con. II, part of lots 5, 6 and 7 con. I and II.
Map Reference: ODM Map 1950-1, Township of Echo.

Geology: Keewatin basalts have been intruded by a stock of quartz porphyry and later dikes of granodiorite and quartz-feldspar porphyry. Lavas strike N70°E and dip steeply south. Mineralization is associated with quartz veins and associated alteration zones in granodiorite.

Economic Features: Orebody about 900 feet long, 28 feet wide, average grade 0.25 oz. gold per ton indicated on 200- and 350-foot levels. Ore extends down to 500-foot level.

Ownership: Newlund Mines Ltd.

History: 1941-48: 9,000 feet surface stripping and trenching; 45,303 feet of drilling by Lunward Gold Mines Ltd.
1949-52: Vertical shaft 825 feet; lateral development 15,027 feet on 200-, 350-, 500- and 800-foot levels; underground drilling about 154 holes, totalling 20,419 feet by Newlund Mines Ltd.

Production: 0.92 oz. gold value $32 by Lunward Gold Mines Ltd.

References: OBM Vol.58, pt.1, facing p.10
Mineral Resources Branch, gold - Newlund Mine.
OBM Vol.59, pt.5, p.32-35
OBM Vol.60, pt.2, p.57
OBM Vol.61, pt.2, p.58
OBM Vol.62, pt.2, p.60, 61.

Villbona Prospect

Main Metals: Au.

Location: Southeastern part of Echo Township, to the northeast of the Newlund Mines Ltd. property and to the north of Franciscan Lake.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Northeast-trending intermediate to mafic metavolcanics have been intruded by irregular masses of quartz porphyry. A northeast-trending granodiorite dike dipping steeply to the south and averaging 100 feet in width, has been traced for a length of 2,000 feet and contains low concentrations of gold mineralization in the walls of quartz-filled tension fractures. Similar mineralization has been found to the northeast in a parallel granodiorite dike dipping 80°N and traced for 1,000 feet.

History: 1950-51: Surface work and approximately 18,700 feet of diamond drilling. Work by Villbona Gold Mines Ltd.

References: Canadian Mines Handbook 1950, p.203.
ODM P.R.1951-1, p.6.
Survey of Mines 1952, p.275.
Canadian Mines Handbook 1953, p.348.

Windward Prospect

Main Metals: Au.

Location: South-central part of Echo Township, to the southwest of Newlund Prospect and east of Crossecho Lake.
Map Reference: ODM Map 1950-1, Township of Echo.

Geology: Felsic and mafic metavolcanics, sometimes spherulitic, are intruded by quartz-feldspar porphyry dikes and northwest-trending quartz veins.

Ownership: Windfall Oil and Mines Ltd.

History: 1947-52: Shaft sunk to 225 feet, level at 200 feet connected to Newlund Prospect. Drifting totalled 2,735 feet and crosscutting 244 feet, diamond drill holes comprised 11 surface aggregating 5,111 feet and 17 underground aggregating 8,183 feet. Work by Windward Gold Mines Ltd.

References: ODM Vol.59, pt.5, p.36.
ODM Vol.62, pt.2, p.84.
Canadian Mines Handbook 1958, p.275.

EWART TOWNSHIP

Electrum Prospect (Arsenic Zone)

Main Metals: Au.

Location: Nearly 2 miles east of High Lake, east-central part of Ewart Township.
Map Reference: ODM Map 2069, Ewart-Forgie area.

Geology: Sheared conglomerate and greywacke contain a northwest-trending tongue of quartz porphyry. Veins with associated pyrite, arsenopyrite and minor pyrrhotite occur probably "en echelon" and are concentrated within the porphyry.

Economic Features: Drilling down to 130 feet depth outlined a minimum length of 320 feet averaging 0.36 ounces of gold per ton over a width of 5.8 feet.

History: 1960: Ten diamond drill holes by Electrum Lake Gold Mines Ltd.

References: ODM G.R.41, p.38-40.
Mineral Resources Branch File, Electrum Lake.

Electrum Prospect (A, B, C and D Zones)

Main Metals: Au, Cu.

Location: About 1/2 mile southwest of Electrum Lake and north of the east end of High Lake in the central part of Ewart Township. Claims K 23942 and K 23943.
Map Reference: ODM Map 2069, Ewart-Forgie area.

Geology: Metabasalts have been intruded by quartz-feldspar porphyry. Mineralized zones, which may occur in an "en echelon" pattern, are concentrated in schisted basalt in the A, C and D zones but are also found in steeply north-dipping sheared porphyry in the B zone. Associated metallic minerals are pyrite, pyrrhotite, chalcopyrite and magnetite.

Economic Features: Estimated results of shallow drilling follow:

Zone	Length feet	Width feet	Au per ton ounces	% Cu	Depth feet
A	100	5	0.34	0.14	150
B	150	3	0.27	1.00	200
C	150	5	0.32	0.94	100

D - only one hole drilled; very low assay results.

History: 1953: Ten diamond drill holes by San Antonio Gold Mines Ltd.
1958: Drilling by C. Alcock.
1960-61: Trenching, magnetometer survey and 39 drill holes by Electrum Lake Gold Mines Ltd.

References: ODM G.R.41, p.40-42.
Mineral Resources Branch File, Alcock Property II, High Lake.

Electrum Prospect (P and W Zones)

Main Metals: Au.

Location: About 3/4 mile southwest of Electrum Lake and north of High Lake in west-central part of Ewart Township. Claims K 20695 and K 20696.
Map Reference: ODM Map 2069, Ewart-Forgie area.

Geology: Visible gold has been found associated with a mass of sheared quartz-feldspar porphyry containing pyrite.

Economic Features: Preliminary drilling suggests shallow zones about 100 feet long which average between 0.29 and 0.40 ounces of gold per ton.

History: 1960: Twenty two diamond drill holes by Electrum Lake Gold Mines Ltd.

References: ODM G.R.41, p.42-43.

Kenopo Prospect (Conglomerate Showing)

Main Metals: Au.

Location: About 3,000 feet south of the east end of Electrum Lake in the central portion of Ewart Township. Claim K 8555.
Map Reference: ODM Map 2069, Ewart-Forgie area.

Geology: An east-trending band of conglomerate averaging 50 feet in width occurs between volcanics and minor porphyry. The conglomerate contains disseminated pyrite and irregular masses of quartz.

Economic Features: Assay results of channel samples were all less than 0.05 ounces of gold per ton. Drilling indicated generally low and erratic concentrations but one intersection contained 1.48 ounces of gold per ton across 6 feet.

History: 1937: Pits sunk by Oliver Severn Gold Mines Ltd.
1938-39: Twenty-six drill holes totalling 1,526 feet. 25-ton mill built by Kenopo Mining and Milling Co. Ltd. at Norman village.
1944: Channel sampling and drilling by Sylvanite Gold Mines Ltd.
1958: Seven holes drilled by Francoeur Mines Ltd.

Production:	Year	Gold ounces	Value dollars	Ore Milled tons
	1939 (ODM G.R.41,p.35)	± 11	± 370	± 76

References: ODM G.R.41, p.34-35.
ODM Vol.48, pt.1, p.22.

Kenopo Prospect (Electrum Pits)

Main Metals: Au, Ag, Cu.

Location: About 1,800 feet south of Electrum Lake in central part of Ewart Township. Claim K 8334.
Map Reference: ODM Map 2069, Ewart-Forgie area.

Geology: Quartz porphyry dikes, trending north-northwest with steep west dips, are 1 - 5 feet wide and contain arsenopyrite, pyrite, pyrrhotite and chalcopyrite; electrum is reported in quartz veins. The wall rock consists of sheared mafic volcanics. Drilling indicated mostly low metal concentrations, but one intersection assayed 1.56 ounces of gold and 1.20 ounces of silver per ton, and 0.74% copper over an interval of 2.1 feet.

History: ±1939: Several pits sunk and about 250 tons of rock removed.
1958: Eleven holes drilled by Francoeur Mines Ltd.

References: ODM G.R.41, p.33-34.

Purdex Prospect

Main Metals: Au.

Location: About 1,700 feet southeast of Electrum Lake in the central part of Ewart Township. Main workings on claims K 25130 and K 25131.
Map Reference: ODM Map 2069, Ewart-Forgie area.

Geology: Quartz veins filling gash fractures occur in mafic lavas and intrusive masses of quartz-feldspar porphyry. Mineralized zones are considered related to drag folds. Associated sulphides are pyrite, pyrrhotite and chalcopyrite.

Economic Features: J.C. Davies in ODM G.R.41, p.38 records the following summary of drilling results by Purdex Minerals Ltd.:

Zone	Length feet	Width feet	Depth feet	Au per ton ounces	Indicated tons
A	147	4.5	325	0.34	21,400
B	160	5.7	215	0.40	19,600
D	130	7.7	170	0.30	17,000
P	170	4.6	235	0.23	18,500
			Total	0.32	76,500

History: 1953: Mapping and trenching by Barymin Company Ltd. under option from J. Duncan and A. Duncan.
1958: Four holes drilled by C.A. Alcock and A. Duncan.
1958: Trenching and 33 drill holes totalling 8,585 feet by Purdex Minerals Ltd. under option from Messrs. Alcock and Duncan.

References: ODM G.R.41, p.36-38.
Mineral Resources Branch File, Alcock Property II, High Lake.

FORGIE TOWNSHIP

Golden Horn Mine (Past Producer)

Main Metals: Au.

Location: Between Rush Bay and Echo Bay on Lake of the Woods on both sides of the common boundary between Forgie and Glass Townships. Shafts on claim K 12160.
Map Reference: ODM Map 2069, Ewart-Forgie area.

Geology: An easterly trending rhyolite band, 100 to 175 feet wide is flanked by basaltic rocks. The width of the vein within the rhyolite ranges from a few inches to 3.2 feet and extends on the 100-foot level over 190 feet. Gold is associated with minor amounts of sulphides.

Ownership: Unknown, claim K 12160 owned in 1963 by P. Thrasher of Winnipeg.

History: 1902-07: No. 1 shaft 113 feet; No. 2 shaft 255 feet, lateral development about 1,100 feet on 100-, 166- and 235-foot levels by Rush Bay Golden Horn Co. Ltd.

Production:

Years	Gold ounces	Value dollars	Ore Milled tons
1904, 1906, 1907	113	1,120	615

(ODM Statistical Files, Rush Bay Golden Horn Mining Co. Ltd.).

References: ODM Vol.12, p.94
ODM Vol.13, p.61
ODM Vol.14, p.47
ODM Vol.15, p.59
ODM Vol.45, pt.3, p.39
ODM G.R.41, p.45.

GLASS TOWNSHIP

Cornucopia Mine (Past Producer)

Main Metals: Au, Ag.

Location: Southwest portion of Glass Township, on Cedar Island, Bag Bay, Shoal Lake. Shaft on claim D 212.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Metabasalts on the west side of a granite batholith have been intruded by aplite and pegmatite dikes. The most important vein runs parallel to an aplite dike, strikes N45°W and dips 69°SW. Gold occurs in the vein quartz and associated pyrite. Assays from a 180-foot vein section on the 144-foot level averaged 1.48 ounces of gold per ton across 46 inches. The average grade of ore milled was 0.29 ounces of gold per ton.

History: 1896-97: Shaft sunk 80 feet by Anglian Mining and Finance Co. Ltd. and/or Messrs. Kendall and Whiting of Rat Portage.
1897-98: Drifting totalling 25 feet and crosscutting 20 feet at bottom of shaft which was then continued to a depth of 110 feet. Diamond drilling totalling 869 feet from 4 holes. Work by Cedar Island Gold Mining Co. of Ontario Ltd.
1929-36: Trenching. Inclined shaft (No. 1) sunk to 165 feet with level at 144 feet, on which 385 feet of drifting and 163 feet of crosscutting were done. The old vertical Cornucopia shaft subsequently known as No. 2 shaft was deepened to 646 feet with levels at 283, 393, 500 and 600 feet on which about 5,450 feet of lateral development work was done. Diamond drilling, 1,800 feet from surface and 3,420 feet underground. 30-ton mill installed. Work by Kenora Prospectors and Miners Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1896, 1932, 1935-1936	4,941	3,884	174,146	17,050

(ODM Statistical Files, Kenora Prospectors and Miners Ltd. (1928) Cornucopia, Cedar Island).

References: OBM Vol.6, p.50
OBM Vol.7, p.54
OBM Vol.8, p.67
ODM Vol.44, pt.4, p.43-44
ODM Vol.46, pt.1, p.152-153.

Crown Point Prospect

Main Metals: Au.

Location: Central portion of Glass Township, on the point east of the narrows between Bag Bay and Clytie Bay of Shoal Lake. 3 shafts on claim D 258.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: A sheared contact zone between a granite batholith and metabasalts contains quartz stringers and abundant disseminated pyrite. The main vein in shear zones within the granite strikes about east. The average grade of the 150 tons of ore milled was 0.67 ounces of gold per ton.

History: 1899-1900: Test pits and three shafts were sunk; ventilation shaft 65 feet, "contact" shaft 60 feet and main shaft 125 feet with a level at 60 feet on which 100 feet of drifting and 15 feet of crosscutting were carried out. A 5 stamp mill was erected. Work by Crown Point Mining Co. Ltd.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1900	100	900	150

(ODM Statistical Files, Crown Point Mining Co. Ltd.).

References: OBM Vol.9, p.59
OBM Vol.10, p.79.

Mikado Mine (Past Producer)

Main Metals: Au, Ag.

Location: On south shore Bag Bay, Shoal Lake about 25 miles southwest of Kenora, southern portion of Glass Township.
Map Reference: ODM Map 39e, Shoal Lake area.

Geology: The mine is located in Keewatin mafic volcanic rocks just west of a granite batholith. A pegmatite dike striking east cuts the volcanic rocks. The main vein, varying in width from 16 inches to 5 feet, strikes N30°W and dips 85°NE. The main ore shoot occurs at the intersection of this vein with the dike. Gold is associated with sulphides including chalcopyrite, galena, tetradymite, bismuthinite and molybdenite.

Ownership: Unknown, acquired in 1932 by Kenora Prospectors and Miners Ltd.

History: 1896-1904: Some surface excavations; surface and underground drilling; No. 1 vertical shaft to 325 feet, then 26°-35° inclined with 10 levels down to 660 feet. Shaft No. 2 inclined 65° about 400 feet to the east, sunk to 250 feet; shafts No. 3 and No. 4 are 80 and 65 feet respectively; over 7,500 feet lateral development mainly from No. 1 shaft by Mikado Gold Mining Co. Ltd.
1909-10: Minor underground work by Kenora Mines Ltd.
1922: Minor underground work by Mikado Consolidated Mines.
1932-34: Some drifting on 9th and 10th levels; about 2,800 feet underground drilling by Kenora Prospectors and Miners Ltd.

Production:

Years	Gold ounces	Silver ounces	Value dollars	Ore Milled tons
1896-1902	27,619	-	408,532	57,780
1910-1911	530	-	8,683	?
1931	186	41	3,855	33
	28,335	41	421,070	57,813

(ODM Statistical Files, Mikado Gold Mining Co. Ltd., Kenora Prospectors and Miners Ltd.).

References: OBM Vol.7,p.51, 53
OBM Vol.8, p.65
OBM Vol.9, p.52-56
OBM Vol.10, p.76, 77
OBM Vol.11, p.81, 252, 253
OBM Vol.12, p.95
OBM Vol.13, p.60
OBM Vol.20, pt.1, p.86, 164
OBM Vol.21, pt.1, p.100
ODM Vol.32, pt.6, p.20
ODM Vol.34, pt.6, p.3-8
ODM Vol.43, pt.1, p.79
ODM Vol.44, pt.1, p.107
ODM P.R.1965-2, p.41, 42
GSC, Economic Geol. Series No.15, p.40, 41.

Olympia Mine (Past Producer)

Main Metals: Au, Ag.

Location: South-central part of Glass Township, on the northwest shore of Helldiver Bay of Shoal Lake. Claim M11.
Map Reference: ODM Map 39e, Shoal Lake area.

Geology: Northeast-trending mafic metavolcanics are intruded by porphyry dikes. The gold is associated with pyrite in quartz and quartz-carbonate veins which occupy northwest-trending fractures. The first shaft was sunk on a vein 3-1/2 feet wide at the surface, widening to 6 feet at

70 feet depth and dipping 45°N. Average grade of ore produced was 0.20 ounces of gold per ton.

Ownership: Machin Mines Ltd., subsidiary of Olympia Mines Inc.

History: Late 1800's: Discovered.
1902-16: Five prospect shafts and three tunnels were developed. The shafts were respectively 110, 75, 70, 32 and 25 feet deep, a tunnel near the mill was 125 feet long and connected with the 70-foot shaft, the other two were 40 and 460 feet long, the latter was stoped to the surface in two places. Ten stamp mill was erected. Work by Olympia Gold Mining Co.
1936: One of old shafts deepened to 125 feet with 287 feet of crosscutting and 50 feet drifting on the 109-foot level by I.G. Machin.
1964: Surface exploration and diamond drilling. Work by Machin Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1906, 1911 1912, 1915	332	58	4,782	1,598

(ODM Statistical Files, Olympia Gold Mining Co.).

References: OBM Vol.20, pt.1, p.162
OBM Vol.25, pt.1, p.68
ODM Vol.34, pt.6, p.8
Canadian Mines Handbook 1964, p.184
ODM M.P.22, December 1968, No.4, p.12-14
Survey of Mines 1969, p.171.

HAYCOCK TOWNSHIP

Black Sturgeon Prospect

Main Metals: Au.

Location: Haycock Township, approximately 7 miles northeast of Kenora town, south of Black Sturgeon Lakes and west of Island Lake. Shafts on lot 11, con. VI.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: The contact area of metavolcanics and granite is intruded by a number of veins. The main vein, on lot 11, strikes northeast.

History: 1896: Property staked by A. Benson.
1897-98: Test pits and two shafts sunk; No. 1 to 42 feet and No. 2 to 36 feet depth. Work by The Black Sturgeon Mining Co. of Ontario Ltd.
1898-99: New shaft sunk to a depth of 175 feet with levels at 93 and 170

feet on which 98 feet of drifting and 40 feet of crosscutting were done. Work by F.W. Gilchrist and P. Culligan.

References: OBM Vol.7, p.57
OBM Vol.9, p.37-38.

Champion Prospect

Main Metals: Au, Ag.

Location: Southwest part of Haycock Township, approximately 0.5 miles south of Island Lake and 0.5 miles east of Breakneck Lake. Shaft on claim P 349. Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Granite encloses within a fracture zone a southeast-striking vein which dips 55° southwest and is from 8 to 24 inches wide at the surface. The vein roughly following an aplite dike is traceable over 100 feet and contains sulphides and native gold.

History: Circa 1893: Test pitting by owners, who included M.M. Holmes.
Circa 1898: Shaft inclined 50° southwest sunk to a depth of approximately 70 feet, level at a depth of 25 feet on which 78 feet of drifting and 10 feet of crosscutting were done. An adit was driven approximately 120 feet to intersect the bottom of the shaft. Work by H. Armstrong, J. Hildreth and W. Peters.
Circa 1899-1900: Shaft continued to a depth of 122 feet. Work by The Bullion Mining Co. of Ontario Ltd.
1925-27: Shaft continued to a depth of 230 feet, levels at 130 and 230 feet on which 345 feet of lateral work were done. Mill installed. Work by Champion Gold Mines Ltd.
1935: Prospected by Franklin Gold Mining Co. Ltd.
1936: A total of 293 feet of drifting, 96 feet of crosscutting, and diamond drilling. Work by Franklin Gold Mines (1936) Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1900, 1925, 1926	107*	15*+	2,220*+	231+

* No figures for 1900.
+ No figures for 1926.
(ODM Statistical Files, Champion Gold Mines Ltd. (Bad Mine).

References: OBM Vol.3, p.30-31
OBM Vol.8, p.56
OBM Vol.9, p.38
ODM Vol.35, pt.1, p.90
ODM Vol.45, pt.1, p.108; pt.3, p.39-43
ODM Vol.46, pt.1, p.134-135.

JAFFRAY TOWNSHIP

Treasure Prospect

Main Metals: Au.

Location: Southeast part of Jaffray Township, seven miles east of Kenora, claims 400P and 409P.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Country rock of granite gneiss is cut by two southeasterly dipping veins containing some pyrite and free gold. Width of veins varies from 2 to 7-1/2 feet.

History: Up to 1893: 2 shafts sunk; on No. 1 vein, 60 feet deep, level at 50 feet, and 36 feet of crosscutting; on No. 2 vein, 50 feet deep. Work by Webster and Angell of Cleveland.
By 1900: A 45-foot long open cut. A shaft about 100 feet deep with crosscutting and drifting; about 100 feet northeast, a shaft at least 28 feet deep was sunk by A.B. Upton of Duluth in 1900.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1898	29	529	34

(ODM Statistical Files, Treasure Mine).

References: OBM Vol.3, p.30
OBM Vol.9, p.38.

KIRKUP TOWNSHIP

Black Jack Prospect

Main Metals: Au.

Location: Kirkup Township, east of Bigstone Bay, Lake of the Woods, and northwest of Oblong Lake. Shaft on X90.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Mafic metavolcanics are crossed by a northeast-striking shear zone, containing quartz lenses with some gold, and disseminated chalcopyrite and pyrrhotite.

History: 1889-92: Prospected and 18-foot test pit sunk. Work by W.J. Franks.
1892-95: Shaft, possibly continuation of previous work to depth of 80 feet, level at approximately 60 feet with 18 feet of drifting and 12 feet of crosscutting. Work by Black Jack Mining Co.

1895-99: Shaft continued to a depth of approximately 100 feet, level at 60 feet, with 50 feet of drifting and 150 feet of crosscutting. Work by Dominion Gold Mining and Reduction Co. Ltd.
1899: Level established at 100 feet on previous shaft with 26 feet of drifting and stoping at a depth of 30 feet. Work by Britannia Consolidated Gold Mining Co. of Ontario Ltd.

Production:

Year	Total Value dollars	Ore Milled tons
1893	300	50

(ODM Statistical Files, Black Jack Mine).

References: OBM Vol.3, p.25-26
OBM Vol.5, p.173-177
OBM Vol.6, p.50
OBM Vol.9, p.42-43.

Gold Hill Prospect

Main Metals: Au.

Location: Kirkup Township, east of Bigstone Bay, Lake of the Woods, and west of Oblong Lake. Shaft on 70K.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Mafic volcanic rocks cut by quartz veins some of which strike northwest and dip to the south.

History: 1885-91: Prospecting, pitting and shallow shafts, one to a depth of 56 feet. Work by J.D. Wright and D.B. Burdette (Gold Hill Co.).
1891-95: Sinking of shallow shafts and pitting. Erection of 10 stamp mill. Work by Northern Gold Co.
1895-99: 3 shafts were sunk, probably not continuations of previous workings. No. 1 to 60 feet, No. 2 to approximately 120 feet with levels at 60 and 115 feet and 79 feet of drifting, and No. 3 to 22 feet. Work by Dominion Gold Mining and Reduction Co. Ltd.

Production:

Years	Total Value dollars	Ore Milled tons
1886-1893	19,610	220

(ODM Statistical Files, Gold Hill Gold Mine).

References: Royal Commission 1890, p.116
OBM Vol.3, p.21-25
OBM Vol.5, p.172-177
OBM Vol.6, p.50, 251
OBM Vol.7, p.37
OBM Vol.9, p.42-43.

MacFIE TOWNSHIP

Alto-Gardnar Prospect

Main Metals: Au, Ag.

Location: Northeast part of MacFie Township, about 1 mile southeast of Sandybeach Lake. Workings on claim K 8822.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Trenching and stripping exposed discontinuous quartz veins over a length of 1,300 feet in mafic metavolcanics and quartz porphyry bands up to 20 feet wide. The veins trending parallel to the schistosity of the country rocks at N45°E are up to 12 feet wide. Grab samples assayed up to 0.03 ounces of gold per ton; ore used in a mill test averaged 0.08 ounces per ton.

History: 1937-40: Trenching and sampling. Work by W. Gardnar and J.W. Alto. 1940-41: 1,500 feet of surface trenching with the extraction of 125 tons of ore and two diamond drill holes. Milling performed at Van Houten Gold Mines Ltd. Work by Sandybeach Lake Syndicate.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1941	10	2	391	125

(ODM Statistical Files, Sandybeach Lake Syndicate for 1941).

References: ODM Vol.50, pt.2, p.58-59.
Mineral Resources Branch File, Alto-Gardnar Claims.

MANROSS TOWNSHIP

Stella Prospect

Main Metals: Au.

Location: Northeast portion of Manross and northwest portion of Code Townships, between Lac La Belle and Stella Lake, approximately 1 mile northeast of Wendigo Mine. Shafts on K 3433, K 3435 and adit on K 3436.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Mafic metavolcanics intruded to the north by a granite batholith are cut by several shear zones and quartz veins, one of which assayed from 0.02 to 6.92 ounces of gold per ton over a length of 60 feet and across a width of 1 to 3 feet.

History: 1897-1900: Stripping, pitting and cutting. 4 shafts were sunk and an adit driven 104 feet. The depths of the shafts appear to be as follows: No. 1 was 60 feet; No. 2 was 127 feet, with levels at 60 and 127 feet on which more than 15 feet of drifting and 40 feet of crosscutting were done; No. 3 was 40 feet and No. 4, situated near the adit and inclined 57° was 51 feet. Work by The Ontario Prospectors' Mining and Development Co. Ltd.
1935: Trenching and pitting by Stella-Lac La Belle Mines Syndicate.
1936: From No. 2 shaft 32 feet of drifting was done on the original 60-foot level. Work by Blue Star Gold Mines Ltd.
1960: Drilling of 11 diamond drill holes.

References: OBM Vol.7, pt.1, p.38-39
OBM Vol.8, p.62-63
OBM Vol.10, p.91
ODM Vol.44, pt.4, p.40-41
Canadian Mines Handbook 1935, p.35
ODM Vol.46, pt.1, p.104
ODM Kenora Files K-21.

Wendigo Mine (Past Producer)

Main Metals: Au, Ag, Cu.

Location: Manross Township, north of Witch Bay, Lake of the Woods, and south of Lac La Belle. Shafts on MH 208.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Bands of basalt and porphyritic lavas alternate with irregular masses of diorite. The main (No. 1) vein occurring in a shear zone in basalt, is up to about 360 feet long, up to 2-1/2 feet wide, and has a strike and dip of N80°E and 80°N respectively. Associated pyrite, pyrrhotite and chalcopyrite occupy fractured zones in the vein quartz and constitute about half of the vein materials. The average grade of ore milled was 0.33 ounces of gold per ton.

History: 1899: 2 shafts started, inclined No. 1 sunk to a depth of 60 feet. Work by a "Canadian Syndicate" including C. Gooderham, W. MacKenzie, R. Cartwright and C. Jones.
1900-02: No. 1 shaft continued to 108 feet with levels at 50 and 100 feet. No. 2 shaft sunk to 100 feet with a level at 60 feet. The shafts were connected at the 100-foot level. Drifting from both shafts totalled approximately 224 feet. Work by The Wendigo Mines of Ontario Ltd.
1931: Some work by Ribago Copper Corp.
1933-43: Extensive surface trenching. No. 1 shaft (main) continued to 1,123 feet with additional levels at 200, 350, 500, 575, 650, 725, 800, 875, 950, and 1,100 feet. A vertical winze was sunk 635 feet from the 1,100 level with levels at 1,250, 1,400, 1,550, and 1,700 feet. Drifting totalled 12,293 feet and crosscutting 1,341 feet. Diamond drilling footage totalled 7,255 feet from more than 51 surface holes, and 19,941 from more than 151 underground holes. A 50-ton mill was erected, the capacity later increased to 100 tons. Work by Wendigo Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value of bullion dollars	Ore Milled tons	Dividends dollars
1900, 1936-1943, 1951	67,423	14,762	2,510,076	206,054	686,440

Concentrates shipped also included 1,886,246 pounds of copper. (ODM Statistical Files, Wendigo Gold Mines Ltd.).

References: OBM Vol.9, p.44
OBM Vol.10, p.71-72
ODM Vol.44, pt.1, p.150; pt.4, p.35-39
ODM Vol.52, pt.1, p.197-198
ODM P.R.1965-2, p.8, p.43-44
Mineral Resources Branch File, Wendigo Gold Mines Ltd.

PHILLIPS TOWNSHIP

Combined Prospect

Main Metals: Au.

Location: Northeast portion of Phillips Township, northeast of Camp Bay of Whitefish Bay, northwest of Youngs Bay of Kakagi Lake and about 1 mile east of the Bully Boy Occurrence. Shaft on McA 77.
Map Reference: ODM Map 52c, Whitefish Bay area, Lake of the Woods.

Geology: Pillowed metabasalts are intruded by a number of porphyritic dikes, and a northwest-trending diabase dike. One of the veins has a shallow dip northwestward, is about 4 feet thick and may underlie a considerable area.

History: 1897-99: Trenching and pitting; shallow shafts were sunk mostly on the vein mentioned above and were linked underground. A 10 stamp mill was also erected. Work by Combined Gold Mines Co. of Ontario Ltd.
1903-05: Shaft inclined 22°N was sunk to 101 feet with a level at 75 feet, on which there was 166 feet of drifting; a second shaft 150 feet north of former shaft was sunk 45 feet with more than 150 feet of drifting and stoping. Work by the Camp Bay Mining Co. Ltd.

Production:

Year	Total Value dollars	Ore Milled tons
1904	220	37

(ODM Statistical Files, Combined)

References: OBM Vol.14, pt.1, p.48
OBM Vol.15, pt.1, p.58-59
ODM Vol.52, pt.4, p.15
ODM P.R.1965-2, p.8, 9, 14.

PICKEREL TOWNSHIP

Eaglelund Prospect

Main Metals: Au.

Location: West of Pickerel Arm on Minnitaki Lake 17 miles southwest of Sioux Lookout in Pickerel Township, SE-1/4, S-1/2, lot 7, con. V. Map Reference: ODM Map 2155, Western Minnitaki Lake area.

Geology: Keewatin volcanics have been intruded by feldspar porphyries, and a granodiorite dike striking N58°E and dipping steeply to the north. Mineralized fractures occur in the dike which ranges from 10 to 40 feet in width and occurs at intervals for a strike length of 3,000 feet. Drilling outlined a zone 800 feet in length containing up to 0.31 ounces per ton in gold.

History: 1950: 2,300 feet diamond drilling by Eaglelund Gold Mines.

References: Canadian Mines Handbook 1951, p.62
Canadian Mines Register, 1st supplement 1966, p.29
ODM G.R.75, p.22.

VAN HORNE TOWNSHIP

Bonanza Prospect

Main Metals: Au, Ag.

Location: NE-1/4, S-1/2 lot 7, con. I, Van Horne Township. Map Reference: ODM Map 50e, Dryden-Wabigoon area.

Geology: Intermediate to mafic metavolcanics and agglomerate are intruded by felsic and mafic dikes. The main vein has been traced underground for 600 feet, is from 2 to 20 inches wide and contains erratic gold values associated with sulphides. The average grade of ore milled was 0.20 ounces of gold per ton.

History: 1918-23: Shaft sunk to 333 feet, inclined 80° to the third level below which it is vertical, levels at 80, 170 and 268 feet. Drifting totalled 1,091 feet. Ore milled at Redeemer Mine. Work by Contact Bay Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1920, 1923	246	83	5,379	1,206

(ODM Statistical Files, Bonanza Mines (Contact Bay Mines Ltd.).

References: ODM Vol.29, pt.1, p.67
ODM Vol.34, pt.6, p.39-42
ODM Vol.50, pt.2, p.49-50.

Redeemer Prospect

Main Metals: Au.

Location: Southeast portion of Van Horne Township, SW-1/4, S-1/2 lot 6, con. I, west of Wabigoon Lake and 5 miles south of Dryden town. Map Reference: ODM Map 50e, Dryden-Wabigoon area.

Geology: Intermediate to mafic metavolcanics and agglomerates are intruded by mafic and felsic dikes, and veins. The main vein widened from 8 feet at the surface to 10.5 feet at the bottom, the quartz being associated with sulphides. The average grade of ore milled was 0.20 ounces of gold per ton.

History: 1900-04: Vertical shaft sunk to 235 feet with levels at 100 and 200 feet. Total of 283 feet of drifting and 400 feet of crosscutting. 10 stamp mill erected. Work by Redeemer Mining and Milling Co. 1918-20: Surface prospecting and shaft pumped out. Work by Contact Bay Mines Ltd.

Production:	Years	Gold ounces	Total Value dollars	Ore Milled tons
	1905, 1918	108	1,920	550

References: OBM Vol.13, p.66
ODM Vol.29, pt.1, p.66-67
ODM Vol.34, pt.6, p.39-42
ODM Vol.50, pt.2, p.48-49.

VERMILION TOWNSHIP

Vermilion Lake Mine (Past Producer)

Main Metals: Au, Ag.

Location: 7 miles southwest of Hudson on south shore Vermilion Lake,

Vermilion Township; main trenches on claims K 2230 and K 2234.
Map Reference: ODM Map 41h, Sioux Lookout area.

Geology: Timiskaming sediments have been intruded by a quartz porphyry body. Quartz veinlets in shear zones at and near the contact contain gold and sulphides including arsenopyrite. The strike and dip of the zone along the north side of the porphyry body is N80°E and 60°N respectively; mineralization was traced in rockcuts over a length of 120 feet and a width of 5 to 8 feet.

Ownership: Present status unknown; property acquired by Denree Consolidated Mines Ltd. in 1954.

History: 1928-30: Surface work by H. Bothman and associates.
1940-41: Diamond drilling by Vermor Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1930, 1935	23	2	575	43

(ODM Statistical Files, Vermilion Lake Gold Mines Ltd.).

References: ODM Vol.41, pt.6, p.19-21
Canadian Mines Handbook 1942, p.189
Canadian Mines Handbook 1954, p.61.

WILLINGDON TOWNSHIP

Regina Mine (Past Producer)

Main Metals: Au, Ag.

Location: Southern portion of Willingdon Township, south coast of Regina Bay, an eastern extension of Lake of the Woods. Shaft on P 566.
Map Reference: ODM Map 52c, Whitefish Bay area.

Geology: Mafic metavolcanics are intruded by granite. Lenticular veins generally near and normal to the contact between volcanics and granite, vary from a few inches to 12 to 15 feet in width.

Economic Features: The main vein No. 3 strikes approximately N70°W and dips almost vertical; from the surface to level 4 it is from 2 to 6 feet wide, below level 4 it is from 1 to 9 feet wide. The vein quartz contains small amounts of sphalerite, pyrite and native gold.

Ownership: Silver Belle Mines (1966) Ltd. (proposed amalgamation May 1969 with Alchib Development Ltd.).

History: 1895: Prospecting, 77-foot long adit with a winze 10 feet deep and shaft sunk 50 feet on vein No. 3. 10 stamp mill erected. Work by Regina Mining Co.

1896-99: Original tunnel continued to 214 feet and main shaft continued to a depth of 475 feet with levels at 60, 108, 185, 248, 298, 360, 420 and 475 feet, drifting totalled 2,512 feet, crosscutting 51 feet, and extensive stoping. Another 4 shallow shafts were sunk to depths of 72, 34, 20 and 18 feet. Some diamond drilling was performed and a Tremaine 14 stamp mill installed. Work by Regina (Canada) Gold Mining Co.
1901-02, 1905: Main shaft deepened to 550 feet and level established at 516 feet, a winze sunk 30 feet from level 3, and 75 feet of drifting. Level 1 was driven 80 feet coming out near the old Tremaine Mill. 30 stamp gravity mill installed. Work by Black Eagle Gold Mining Co. Ltd.
1911: Sampled by Coniagas Mining Co.
1924: Attempted re-opening by Regina Reef Gold Mines Ltd.
1931-34: Winze sunk 132 feet deep from the 9th level, at 516 feet, and 131 feet of crosscutting. Work by Horse Shoe Mines Ltd.
1937: Exploratory work on level 8, 9 and 10 by Kenland Gold Mines Ltd.
1940-42: Sampling, some underground development, 3 underground diamond drill holes totalling 80 feet and clean up work of tailings. Work by J.D. Shannon.
1943: Clean up work by C.S. Walsten.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1895-99, 1902, 1904-05, 1936, 1941-43	±7,812	1,460	299,552	36,828

(ODM Statistical Files, Regina (Canada) Gold Mines Ltd., Black Eagle, Horse Shoe Mines Ltd., Kenland Gold Mines Ltd. (1936), Goldwood Gold Mines Ltd. (1938).

References: OBM Vol.5, p.180-185
OBM Vol.6, p.51-52
OBM Vol.9, p.44-46
OBM Vol.15, p.57-58
ODM Vol.43, pt.1, p.75-76
ODM Vol.44, pt.4, p.30-33
ODM Vol.52, pt.1, p.182
ODM P.R.1965-2, p.44-45.

49°00' - 93°15'

Straw Lake Beach Mine (Past Producer)

Main Metals: Au, Ag.

Location: Lat. 49°00', Long. 93°15', southeastern shore of Straw Lake west of Esox Lake and about 2-1/2 miles north of southern boundary of Kenora District NTS 52F/03/W. Shaft on claim K 3944.
Map Reference: ODM Map 43a, Straw-Manitou Lakes area.

Geology: The property located just south of the southern lobe of a large granitic batholith, is underlain by locally brecciated rhyolites which have been intruded by quartz porphyry dikes. A vein in a sheared zone in the metavolcanics strikes N80°E and dips vertically. Surface sampling indicated a length of 600 feet averaging 0.80 ozs. Au/ton over a width of 13 inches. Associated minerals are pyrite, chalcopyrite, galena and tetradymite. The average grade of the ore milled was 0.34 ounces of gold per ton.

Economic Features: Mine closed owing to shortage of power. In 1941 mine manager reported good and continuous ore on the 700-foot level.

Ownership: Minedel Mines Ltd. holds 50% interest.

History: 1933-34: Trenching, stripping and pitting by Moneta Porcupine Mines Ltd.
1934-41: Trenching. Eleven surface holes totalling 3,579 feet. Shaft 723 feet deep with levels at 100, 200, 300, 425, 575 and 700 feet, and winze 180 feet east of shaft sunk from 425- to 465-foot depth with level at 465 feet. Total drifting and crosscutting 4,125 feet and 506 feet respectively. Daily mill capacity 60 tons. Work by Straw Lake Beach Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1938-41	11,568	1,049	429,477	33,662

(ODM Statistical Files, Straw Lake Beach Gold Mines Ltd.).

References: ODM Vol.44, pt.4, p.25-27
ODM Vol.51, pt.1, p.193
ODM P.R.1965-2, p.45-46
Canadian Mines Handbook 1969-70, p.234

49°15' - 92°30'

Big Master Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/F/07/E, Lat. 49°15', Long. 92°30', east of Trafalgar Bay of Upper Manitou Lake, approximately 3/4 mile southeast of Gold Rock town, and north of Selby Lake. Shafts Nos. 1 and 2 on HP 366 and No. 3 on HP 368.
Map Reference: ODM Map 47k, Mining Properties near Gold Rock.

Geology: Mafic metavolcanics are cut by felsite and quartz-feldspar porphyry dikes. Roughly parallel veins strike N35°-40°E; No. 3 is 5,000 feet long and No. 4 is 2,400 feet long. The width of the ore ranges from 3 to 8 feet. The average grade of ore milled was 0.18 ounces of gold per ton.

Ownership: Kenwest Mines Ltd. with Dickenson Mines Ltd. holding a 60% interest.

History: Circa 1900-04: Pitting and shaft sinking; No. 1 to 185 feet with levels at 75 and 185 feet; No. 2 to 99 feet and connected to No. 1 at the 75-foot level; No. 3 (Helena) to 52 feet and an airshaft. Drifting totalled 1,203 feet and crosscutting 342 feet. A 10 stamp mill was erected. Work by Interstate Consolidated Mining Co.
1904-06: No. 1 shaft continued to 285 feet with a level at this depth, and 110 feet of drifting and 215 feet of crosscutting. Work by Big Master Mining Co.
1916: Mine dewatered and examined, under option by Dominion Reduction Co. Ltd.
1935-36: No. 1 shaft continued to 350 feet, with level at this depth. Drifting totalled 530 feet. Diamond drilling totalled 3,564 feet from the surface and 980 feet from underground. Work under option by Murwood Gold Mines Ltd.
1937-38: Trenching and more than 6,782 feet of diamond drilling by Big Master Consolidated Gold Mines Ltd.
1938: Surface diamond drilling of 115 holes totalling 19,733 feet by R.J. Jowsey and Associates.
1938-39: Underground development by Selby Lake Mines Ltd.
1940-43: No. 1 shaft continued to 638 feet with levels at 475 and 600 feet. Drifting totalled 1,073 feet and crosscutting 200 feet. A mill installed with a capacity of 125 tons a day. Work by Kenwest Mines Ltd.
1946-48: Underground work comprised 1,040 feet of drifting, 352 feet of crosscutting and 33 diamond drill holes totalling 5,772 feet. Work by Kenwest Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1902-03, 1905, 1942-43	2,565+	184*	75,115*	14,470

+ No figure for 1902.
* No silver values for 1902, 1903, 1905.
(ODM Statistical Files, Kenwest Mines Ltd. (1939); Big Master Mine).

References: OBM Vol.10, p.98
OBM Vol.11, p.245-247
OBM Vol.12, p.91
ODM Vol.47, pt.1, p.92-93; pt.6, p.3-6
ODM Vol.52, pt.1, p.123-124
ODM Vol.58, pt.2, p.35-36.

49°15' - 92°30'

Detola Prospect

Main Metals: Au.

Location: NTS 52/F/07/E, Lat. 49°15', Long. 92°30', the middle of the northwest shore of Kabagukski Lake, to the northeast of Upper Manitou Lake. Shaft on HW 411.
Map Reference: ODM Map 42c, Manitou-Stormy Lakes area.

Geology: Sheared mafic metavolcanics cut by veins some with considerable pyrite. A grab sample from the dump assayed 0.1 ounces of gold per ton.

History: 1907-11: Shaft sunk to 255 feet, levels at 100, 155 and 235 feet, with a total of 1,372 feet of crosscutting and drifting. A 10 stamp mill was erected. Work by Detola Development Co. Ltd.
1914: Examined by Germerica Mining Co. Ltd.
1936-37: Dewatering and examination by Tecumseh Gold Mines Ltd.

References: ODM Vol.42, pt.4, p.24
ODM Vol.46, pt.1, p.211.

49°15' - 92°30'

Elora Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/F/07/E, Lat. 49°15', Long. 92°30', approximately 1/2 mile southeast of Gold Rock town on Trafalgar Bay of Upper Manitou Lake, and 1/2 mile southwest of Laurentian Mine. Shaft on HP 301.
Map Reference: ODM Map 47k, Mining Properties near Gold Rock.

Geology: Region of contact between felsic and mafic metavolcanics, is cut by a northeast-trending shear zone occupied by the Jubilee Vein, dipping 76°-86°E. This vein is composed of lenses, veins, stringers of quartz, and felsic dikes, bordered by schists. Native gold occurred occasionally in spectacular amounts in small pockets. The average grade of the ore milled was 0.10 ounces of gold per ton.

Ownership: Elora Gold Mines Ltd.

History: Circa 1898: Shaft (at present known as Jubilee No. 2) sunk 75 feet, level at 48 feet with 88 feet of drifting. Work by Jubilee Gold Mining and Development Co. of Ontario Ltd. (?)
1916: Shaft dewatered by Dominion Reduction Co. Ltd.

1935-38: Open cut made and new shaft (Jubilee No. 1) sunk to a depth of 175 feet, level at 165 feet, drifting totalled 1,223 feet and crosscutting 191 feet. Diamond drilling from surface totalled 4,275 feet. Mill on original Laurentian property used in bulk sampling. Work by Elora Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1936, 1937, 1939	1,370	296	49,017	13,766

(ODM Statistical Files, Elora Gold Mines Ltd.).

References: OBM Vol.7, p.76
OBM Vol.25, pt.1, p.66
ODM Vol.46, pt.1, p.132
ODM Vol.47, pt.1, p.121; pt.6, p.6-8.

49°15' - 92°30'

Giant Prospect

Main Metals: Au.

Location: NTS 52/F/07/E, Lat. 49°15', Long. 92°30', south side, eastern extremity of Mosher Bay off eastern side of Upper Manitou Lake. Shafts on HW 74, 75 and 185; adit on HW 74.
Map Reference: ODM Map 42c, Manitou-Stormy Lakes area.

Geology: Metasediments are cut by a feldspar porphyry dike trending slightly north of east for about 1.8 miles, and several veins which are occasionally auriferous.

History: 1901-02: Extensive pitting and sinking of shallow shafts, adit driven 73 feet. Work by P. Paulson.
1902-05: Pitting and shaft sinking, 1 inclined 80°W to a depth of 212 feet, with a level at 200 feet on which 150 feet of drifting and 24 feet of crosscutting were performed. The adit was continued to 100 feet. A 1 stamp mill was erected. Work by Giant Gold Co. Ltd.

References: OBM Vol.11, p.247
OBM Vol.12, p.92
OBM Vol.13, pt.1, p.67
OBM Vol.14, pt.1, p.53
ODM Vol.42, pt.4, p.24-25.

49°15' - 92°30'

Laurentian Mine (Past Producer)

Main Metals: Au.

Location: NTS 52/F/07/E, Lat. 49°15', Long. 92°30', approximately 1/2 mile east of Gold Rock town on Trafalgar Bay of Upper Manitou Lake, and 1/2 mile north of Big Master Mine. Shaft on HP 371.
Map Reference: ODM Map 47k, Mining Properties near Gold Rock.

Geology: Region of contact between felsic and mafic metavolcanics is cut by a northeast-striking auriferous vein in a shear zone. The average grade of the ore milled was 0.41 ounces of gold per ton.

Ownership: Elora Gold Mines Ltd.

History: 1900-05: Shaft, inclined 80°E, sunk to a depth of 271 feet with levels at 80 and 200 feet. Drifting totalled 423 feet and crosscutting 745 feet. A 20 stamp mill (from the Twentieth Century Mine) was installed. Work by Laurentian Mining Co. Ltd.
1905-09: Shaft continued to 400 feet, levels at 300 and 400 feet, and from latter a winze was sunk 80 feet. Drifting totalled 623 feet and crosscutting 315 feet. Work by Anthony Blum Gold Mines Ltd. Toward later part the Imperial Gold Mines Ltd. was the holding company.
1912-13: Some underground development by Great Golconda Gold Mines Ltd.
1916: Dewatered and examined by Dominion Reduction Co. Ltd.
1938: Dewatered by Elora Gold Mines Ltd.

Production:

Years	Gold ounces	Total Value dollars	Ore Milled tons
1906-1909	8,143	141,140	19,950

(ODM Statistical Files, Imperial Gold Mines Ltd. (1908) Laurentian Mine).

References: OBM Vol.15, pt.1, p.50-51
OBM Vol.16, pt.1, p.57-58
OBM Vol.18, pt.1, p.79
OBM Vol.19, pt.1, p.78
ODM Vol.34, pt.6, p.35-36.

49°15' - 92°30'

Little Master Prospect

Main Metals: Au.

Location: NTS 52/F/07/E, Lat. 49°15', Long. 92°30', approximately 1/2 mile

northwest of Kabagukski Lake, on claim AL 206.
Map Reference: ODM Map 42c, Manitou-Stormy Lakes area.

Geology: Country rock of mafic volcanic rocks enclosing lenses and veins of quartz sometimes showing boudinage. A grab sample from the dump, assayed 0.11 ounces of gold per ton.

Ownership: Presently unknown.

History: 1902-06: Numerous pits and 3 shafts sunk. No. 1, 50 feet deep, level at bottom and 26 feet crosscutting. No. 2, 100 feet deep, level at 80 feet and 50 feet crosscutting. No. 3, 175 feet deep, level at 152 feet and 305 feet crosscutting. Work by Summit Lake Gold Mining Co. Ltd.

References: OBM Vol.12, p.91-92
OBM Vol. 13, pt.1, p.68-69
OBM Vol.14, p.53-54
OBM Vol.16, pt.1, p.58
ODM Vol.42, pt.4, p.25.

49°15' - 92°30'

Paymaster Prospect

Main Metals: Au.

Location: NTS 52/F/07/E, Lat. 49°15', Long. 92°30', 1 mile southeast of Gold Rock, on Upper Manitou Lake, near the western shore of Kabagukski Lake.
Map Reference: ODM Map 42c, Manitou-Stormy Lakes area.

Geology: Country rock of mafic metavolcanics containing two lenticular quartz veins approximately 30 feet apart and dipping southeast, and from 1-1/2 to 2 feet wide, one vein increasing with depth to 11 feet. Grab sample assayed at 20 cents of gold per ton.

History: 1903-10: Vertical shaft to 325 feet, levels at 100, 200 and 300 feet, approximately 270 feet of crosscutting and 500 feet of drifting. 10 stamp mill erected. Work by Northern Development Co.

References: OBM Vol.14, p.54
OBM Vol.20, p.186
ODM Vol.42, pt.4, p.26.

49°15' - 92°30'

Volcanic Reef Prospect

Main Metals: Au.

Location: NTS 52/F/07/E, Lat. 49°15', Long. 92°30', 2 miles northeast of Gold Rock on Upper Manitou Lake and north of Kabagukski Lake.
Map Reference: ODM Map 42c, Manitou-Stormy Lakes area.

Geology: Country rock of metamorphosed andesite contains two parallel veins striking N45°E with a width of about 1 foot and lengths of 1,300 (No. 1) and 800 feet (No. 2). No. 1 assayed at 2 ounces of gold per ton.

Ownership: United New Fortunes Mines Ltd.

History: 1902-prior 1910: Two shafts were sunk; No. 1 to 325 feet with levels at 100, 200 and 300 feet, and No. 2, 500 feet south of No. 1, to 85 feet. Small amounts of lateral development. Work under the direction of the Twentieth Century Mining Co. Ltd.
1937-39: Attempt to reopen mine, mainly surface work by Wheeler Fraction Mining Syndicate Ltd.
1965: Diamond Drilling by United New Fortunes Mines Ltd.

References: OBM Vol.14, p.52-53
ODM Vol.42, pt.4, p.27
Canadian Mines Handbook (1939) p.282
Canadian Mines Handbook (1965) p.313
Mineral Resources Branch Files on gold, Volcanic Reef Mines Ltd.

49°15' - 92°45'

Glass Reef Prospect

Main Metals: Au.

Location: NTS 52/F/07/W, Lat. 49°15', Long. 92°45', northeast shore Lower Manitou Lake south of Beaverhead Island; claims HW391 and 594.
Map Reference: ODM Map 42c, Manitou-Stormy Lakes area.

Geology: Archean metavolcanics have been intruded by a northeast-striking sheared quartz porphyry. The latter contains short discontinuous quartz lenses and stringers seldom over 18 inches wide. The quartz contains tourmaline, carbonate and little pyrite.

Ownership: Presently unknown; in 1968 prospect formed part of group of 54 claims owned on a 50-50 basis by Daering Explorers Corp. Ltd. and Win-Eldrich Mines Ltd.

History: 1900: Vertical shaft 200 feet; 1000 feet drifting and crosscutting on 74-foot level; 60 feet of work on 176-foot level. Work by Glass Reef Gold Mining Company of Lake Manitou Ltd.
1968: Surface exploration by Daering Explorers Corp. Ltd.

References: OBM Vol.10, p.99-100
ODM Vol.42, pt.4, p.25.

49°15' - 92°45'

Gold Rock Prospect

Main Metals: Au, Ag.

Location: NTS 52/F/07/W, Lat. 49°15', Long. 92°45', west shore of Upper Manitou Lake, 0.8 miles southeast of Johnar Lake. Shaft on D 141.
Map Reference: ODM Map 42c, Manitou-Stormy Lakes area.

Geology: Mafic metavolcanics and minor amounts of agglomerate have been locally intruded by granite. The main vein is 1.5 feet wide and contains small quantities of sulphides. Average grade of the 300 tons of ore milled was 0.12 ounces of gold per ton.

History: 1896: Sinking of shallow shafts and erection of a 2 stamp Tremaine mill to be worked on an agency basis. Work by C.W. Mitchell, H.F. Brady and E.B. Haycock.
1928-29: Shaft sunk to 87 feet and 263 feet of crosscutting done by Gold Rock Mining Syndicate Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1929	35	5	726	300

(ODM Statistical Files, Gold Rock Mining Syndicate Ltd.).

References: OBM Vol.6, p.84-85
ODM Vol.38, pt.1, p.106
ODM Vol.39, pt.1, p.97
ODM Vol.42, pt.4, p.32-33.

49°15' - 92°45'

Royal Sovereign Prospect

Main Metals: Au.

Location: NTS 52/F/07/W, Lat. 49°15', Long. 92°45', northwest shore Lower Manitou Lake opposite northern shore of Manitou Island.
Map Reference: ODM Map 42c, Manitou-Stormy Lakes area.

Geology: Mafic metavolcanics were intruded by a northeasterly-striking quartz porphyry. Six parallel, well defined quartz veins occur across a width of about 50 feet, the larger about one foot wide, striking N70°E and with near vertical dip. Gold is associated with tourmaline. Ore samples assayed 20 cents of gold per ton.

History: 1897-1902: Shaft sunk to 105 feet, levels at 65 and 100 feet, total drifting of 121 feet. Work by Neepawa Gold Mining Co.
1902: Workings dewatered,23 tons of ore extracted and milled at Glass Reef stamp mill, second shaft 80 feet deep. Work by a "St. Paul Syndicate".

Production:

Year	Value Dollars
1902	122

(ODM Statistical Files, Royal Sovereign).

References: OBM Vol.7, p.122
OBM Vol.11, p.247-248
ODM Vol.42, pt.4, p.26-27.

49°15' - 92°45'

Twentieth Century Mine (Past Producer)

Main Metals: Au.

Location: NTS 52/F/07/W, Lat. 49°15', Long. 92°45', 9 miles southwest of Gold Rock on the southwestern shore of Upper Manitou Lake. Shaft claim HP398.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Mafic metavolcanic country rock enclosing east-west striking lenticular quartz veins and stringers up to 25 feet wide bearing gold associated with pyrite and other sulphides.

History: 1900?: Vertical shaft sunk 40 feet.
1901-03: Inclined shaft 83°S, sunk 389 feet, levels at 80, 160, 240 and 320 feet. Approximately 470 feet of drifting and 440 feet of crosscutting. 20 stamp mill installed. Work by Twentieth Century Mining Co. Ltd.

Production:

Years	Gold ounces	Total Value dollars	Ore Milled tons
1902-03		43,586	8,688

(ODM Statistical Files, The Twentieth Century Mining Co.).

References: OBM Vol.11, p.248-250
OBM Vol.13, pt.1, p.67
OBM Vol.14, pt.1, p.51.

49°15' - 93°00'

Errington Prospect

Main Metals: Au.

Location: NTS 52/F/06/W, Lat. 49°15', Long. 93°00', on the north shore of the eastern part of Rowan Lake.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Metabasalt and associated dacitic breccia zones are intruded by felsic and intermediate dikes. Quartz veins up to 3 feet wide and striking northwest, some reported auriferous, either fill tension fractures in the felsic dikes or occupy the felsic/metabasalt contact.

History: 1937: Extensive surface trenching and 27 diamond drill holes totalling 6,409 feet. Work by Jos. Errington.

References: ODM Vol.47, pt.6, p.11-12
ODM P.R.1965-2, p.8-9.

49°15' - 93°30'

Monte Cristo Prospect

Main Metals: Au.

Location: NTS 52/F/05/E, Lat. 49°15', Long. 93°30', on the southern shore of Rowan Lake.
Map Reference: ODM Map 42b, Kakagi Lake area.

Geology: Schistose mafic metavolcanics containing porphyry dikes and sheared felsic metavolcanics strike northeast. The shear zones contain chlorite schist ramified with disconnected stringers and lenses of saccharoidal quartz bearing low values of gold associated with carbonates and traces of sulphides.

Economic Features: Maximum width of auriferous rock at surface was determined as approximately 200 feet and higher grade sections averaged 0.17 ounces of gold per ton. The best intersection in drill holes was an interval of 15 feet averaging 0.20 ounces of gold.

Ownership: Lakeport Gold Mines Ltd.

History: 1900: Six trenches at intervals over 400 linear feet. Work by C. Brent.
1900-36: Trenching and sinking of two shallow shafts by unrecorded operators.
1937: 9 diamond drill holes totalling 5,000 feet. Work by Lakeport Gold Mines Ltd.

References: ODM Vol.42, pt.4, p.86-89
ODM Vol.44, pt.4, p.24
ODM Vol.47, pt.6, p.12-13
Mineral Resources Division, Department of Energy, Mines and Resources, Ottawa, File on Monte Cristo Prospect.

49°15' - 93°30'

Sullivan Prospect

Main Metals: Au.

Location: NTS 52/F/05/E, Lat. 49°15', Long. 93°30', southwest end of Rowan Lake, east of Cameron Lake.
Map Reference: ODM Map 42b, Kakagi Lake area.

Geology: Folded mafic metavolcanics and metasediments occur west of a granite stock. The ore zone is a sheared porphyry that is practically a sericite schist striking N82°E with near vertical dip and faulting out at depth. No assay figures are available.

History: 1899-1903: Prospecting followed by surface trenching and sinking of two shafts, one inclined 70° northwest and sunk approximately 110 feet, levels at 60 and 108 feet on which there was 71 feet of drifting and 40 feet of crosscutting, second shaft, about 800 feet southwest of first, sunk 33 feet deep. Work by Anglo-Canadian Gold Estates Ltd.

References: OBM Vol.9, p.49
OBM Vol.10, p.40, 74
ODM Vol.42, pt.4, p.89-90.

49°15' - 93°30'

Violet Prospect

Main Metals: Au.

Location: NTS 52/F/05/E. Lat. 49°15', Long. 93°30', north of Empire Lake about 10 miles north of Rowan Lake. Claim JES106.
Map Reference: ODM Map 42b, Kakagi Lake area.

Geology: Archean mafic metavolcanics and diorite bodies strike northeast. A granite stock occurs about 3/4 mile to the west. Work was on two veins in shear zones in metavolcanics, the northern strikes N40°E, the southern at a distance of 540 feet strikes S75°E. The quartz contains pyrite, pyrrhotite, chalcopyrite and some gold. Mill tests indicated an average grade of 0.50 ounces of gold per ton.

History: 1902-08 (?later): Open cut and shaft sinking, 2 shafts, the northern 12 feet deep and the southern 15 feet deep. Work by Empire Gold Mining and Milling Co. Mill erected winter of 1907.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1908	150	1,800	300

(ODM Statistical Files, Empire Gold Mining and Milling Co.).

References: OBM Vol.12, p.96
OBM Vol.18, pt.1, p.81
ODM Vol.42, pt.4, p.79-80.

49°15' - 93°30'

Virginia Prospect

Main Metals: Au.

Location: NTS 52/F/05/E, Lat. 49°15', Long. 93°30', east shore of Eliza Lake extending just northeast of Caviar Lake. Shaft on claim FM73A.
Map Reference: ODM Map 42b, Kakagi Lake area.

Geology: Interbanded felsic and mafic metavolcanics have been intruded by diorite. Veins in the felsic volcanics trend parallel to the schistosity which dips steeply to the southeast. Surface samples at the shaft assayed $20 of gold per ton. A small pocket assayed $2,000 across five feet at a depth of a few feet. At the 100-foot level the vein narrows and is practically barren. An assay of $10 was reported from the 200-foot level. Samples from a pit 780 feet southwest of the shaft assayed $13.50 across five feet.

History: 1898-1900: Shaft sunk 200 feet, levels at 100 and 200 feet, drifting 12 feet and crosscutting 144 feet, tunnel 72 feet. Three test pits totalling 30 feet.
1903: Some underground working. Work during both periods by Virginia Mining Company of Ontario Ltd.

References: OBM Vol.8, p.59
OBM Vol.9, p.46-47
OBM Vol.13, pt.1, p.64
ODM Vol.42, pt.4, p.76-78.

49°15' - 93°30'

Wampum Lake Prospect

Main Metals: Au.

Location: NTS 52/F/05/E, Lat. 49°15', Long. 93°30', near south half of Wampum Lake about 1/4 mile south of south shore of Rowan Lake and about 1 mile north of Newman Lake. Shaft on claim K42411 (K9351). Map Reference: ODM Map 44e, Rowan-Straw Lakes area.

Geology: Schistose mafic metavolcanics contain two parallel zones of mineralization about 1,000 feet apart. A total of nine veins was found on the property.

Ownership: Mr. R. Runzer of Great Falls, Manitoba.

History: 1940-41: Thirty-five surface drill holes. Shaft on claim K9351 sunk to 200 feet with levels at 100 and 200 feet; drifting 90 feet and crosscutting 95 feet. Work by Wampum Gold Mines Ltd.
1968: Ground magnetic and electromagnetic surveys by Mr. R. Runzer.

References: ODM Vol.51, pt.1, p.210
Canadian Mines Handbook 1941, p.180
ODM Assessment Work file 63.2476.

49°15' - 93°45'

Caswell-Williams Prospect

Main Metals: Au.

Location: NTS 52/F/05/W, Lat. 49°15', Long. 93°45', south shore Flint Lake and north and west of northwestern extent of Stephen Lake, about 5 miles north of Kakagi Lake. Shaft on claim K42385 (K9986).
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Felsic metavolcanics have been intruded by a northeast-trending band of mafic rock. Free gold and gold-bearing pyrite occur in a shear zone in tuffaceous rocks striking N75°E and dipping 85°S. One drill hole intersected 5 feet averaging 1.40 ounces of gold; in another hole intervals up to 11 feet contained between 0.11 and 0.37 ounces of gold per ton.

Ownership: Gunnex Limited, a wholly owned subsidiary of Gunnar Mining Ltd.

History: 1945: Drilling totalling 6,500 feet by Noranda Mines Ltd.
1946: Vertical shaft sunk to 90 feet by Wampum Gold Mines Ltd.
1947: Shaft deepened to 140 feet with station at 125 feet. Work by Dogpaw Gold Mines Ltd.
1969: Magnetic and electromagnetic surveys by Gunnex Ltd.

References: ODM Vol.56, pt.2, p.90
ODM Vol.57, pt.2, p.28
ODM Assessment Work file 63.2486.

49°15' - 93°45'

Dogpaw Lake Prospect

Main Metals: Au.

Location: NTS 52/F/05/W, Lat. 49°15', Long. 93°45', 13 claims near Dogpaw Lake, about 40 miles southeast of Kenora town.
Map Reference: ODM Map 42b, Kakagi Lake area.

Geology: Precambrian, folded, mafic metavolcanics contain quartz veins in shear zones. Initial estimates of the No. 1 vein gave an average gold content of 0.66 ounces of gold per ton across a width of 7 feet and 350 feet deep. Later work estimated the size of the orebody as 96,650 tons, 600 feet deep, 5-1/2 feet wide and grading 0.43 ounces of gold per ton.

Ownership: Consolidated Golden Arrow Mines Ltd.

History: 1959: Surface prospecting and approximately 82 shallow diamond drill holes. Work by Noranda Mines Ltd.
1960-61: Surface trenching and over 18,000 feet of diamond drilling. Work by Consolidated Golden Arrow Mines Ltd.

References: Canadian Mines Handbook 1960, p.64
Canadian Mines Handbook 1969-70, p.100
Mineral Resources Branch, file on gold, Dogpaw Lake.

49°15' - 93°45'

Gold Panner Prospect

Main Metals: Au.

Location: NTS 52/F/05/W, Lat. 49°15', Long. 93°45', on an island at the south end of the eastern portion of Caviar Lake, approximately 4 miles southwest of Virginia Mine. Shaft on MH230.
Map Reference: ODM Map 42b, Kakagi Lake area.

Geology: Bands of schistose mafic metavolcanics and quartz porphyry are crossed by shear zones striking N25°E. Gold is apparently confined to areas where shear zones and quartz porphyry intersect. The grade of 100 tons of ore milled averaged 0.7 ounces of gold per ton.

History: 1899-1903: Pitting. Shaft sunk to 100 feet, with level at 70 feet from which 111 feet of drifting was carried out. A 10-stamp mill was erected. Work by Gold Panner Mining Co. of Ontario Ltd.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1900	70	900	100

(ODM Statistical Files, Gold Panner Mining Co. of Ontario Ltd.).

References: OBM Vol.9, p.49
OBM Vol.10, p.74-75
ODM Vol. 42, pt.4, p.80-82.

49°30' - 92°15'

Sakoose Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/F/09/W, Lat. 49°30', Long. 92°15', approximately 6 miles south of Dyment. Shafts on claims HW416 and 475.
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Mafic metavolcanics and interbanded metasediments are intruded by quartz-feldspar porphyry. Gold associated with sulphides occurs within blue, vitreous quartz veins up to 7 feet wide. Average ore grade was about 0.4 ounces of gold per ton.

History: 1898-1900: Surface development including stripping, trenching and open cutting. Three shafts were sunk. No. 1 shaft, inclined

80°SE; depth 105 feet and 15 feet of crosscutting. No. 2 shaft, northeast of No. 1, depth 105 feet inclined at bottom and 5 feet of crosscutting. Shafts Nos. 1 and 2 are on claim HW416. No. 3 shaft, southeast of No. 1 on HW475, depth 80 feet, level at 75 feet with 58 feet of drifting. Work by Munro and Watson (property known as Golden Whale).
1900-02: No. 1 shaft continued to 165 feet depth, level at 75 feet; 225 feet of drifting. No. 2 shaft, levels were established at 35 and 105 feet; 179 feet of drifting and considerable stoping. Work by the Ottawa Gold Milling and Mining Co. (property known as Sakoose Mine).
1931: Property examined and 500 feet of diamond drilling was done. Examination by P. Hopkins.
1944-47: Mining operations probably in No. 1 shaft area, consisted of 362 feet of drifting, 50 diamond drill holes totalling 3,601 feet from the surface and 40 diamond drill holes totalling 3,891 feet from underground. 50 ton mill installed. Work by Van Houten Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1899-1901, 1945, 1947	3,669	145*	67,913*	8,828⁺

* No silver production reported for the years 1899-1901.
⁺ Not reported for 1945.
(ODM Statistical Files, Sakoose Gold Mining Co. Ltd. (1901) or Gold Whale Mine (Watson & Munro), and Van Houten Gold Syndicate for the years 1945 and 1947).

References: OBM Vol.8, p.72-73
OBM Vol.9, p.63-64
OBM Vol.10, p.101-102
OBM Vol.11, p.255
ODM Vol.34, pt.6, p.38-39
ODM Vol.42, pt.4, p.40
ODM Vol.54, pt.2, p.94
Survey of Mines 1950, p.225.

49°30' - 92°15'

Tabor Prospect

Main Metals: Au, Ag.

Location: NTS 52/F/09/W, Lat. 49°30', Long. 92°15', approximately 7 miles southwest of Dyment. Shaft on K912 (SV258).
Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Mafic metavolcanics have been intruded by quartz porphyry. An irregularly shaped porphyry body, about 200 feet thick, which strikes east and dips 47°S, is cut by gold-bearing quartz veins.

Economic Features: Canadian Mines Handbook 1960, p.194, records an indicated reserve of 50,000 tons averaging 0.5 ounces of gold in shaft area above 400-foot depth.

Ownership: Tabor Lake Gold Mines Ltd.

History: 1897: Property staked by J. Tabor and J. Stevenson.
1897-99: Shaft sunk approximately 70 feet, inclined 80° and some surface stripping. Work by Eastern Township and Development Co.
1934-38: Original shaft slashed to vertical and continued to 280 feet with levels at 68, 125 and 250 feet. Drifting totalled 276 feet and crosscutting 263 feet. Surface diamond drilling exceeded 21 holes totalling 7,355 feet. Work by Clark Gold Mines Ltd.
1957-61: Six surface holes totalling 2,214 feet. 185 feet of drifting and 185 feet of crosscutting. 15-ton mill installed. Work by Pantan Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1935	36	4	1,250	87

(ODM Statistical Files, Clark Gold Mines Ltd.).

References: OBM Vol.8, p.75
ODM Vol.45, pt.1, p.92
ODM Vol.68, pt.2, p.51
Canadian Mines Handbook 1969, p.343
Mineral Resources Branch, file, Tabor Lake.

49°30' - 92°30'

Van Houten Prospect

Main Metals: Au.

Location: NTS 52/F/10/E, Lat. 49°30', Long. 92°30', south of Alston Lake, west of Moose Bay on Dinorwic Lake and about 9 miles south of Wabigoon town. Shaft on K8638.
Map Reference: ODM Map 50e, Dryden-Wabigoon area.

Geology: Intermediate to mafic metavolcanics with interbedded agglomerates have been intruded by a granite stock and a diorite mass. Quartz veins up to 10 inches wide occur in the granite and are parallel to the shearing which is N30°W and dips 75°NE. Associated pyrite, chalcopyrite and molybdenite are mainly in the wallrock.

Ownership: Unknown; acquired by Van Houten Gold Mines Ltd. in 1940, charter cancelled in December 1959.

History: - : Vertical shaft 32 feet deep.
1939: 10-ton mill installed by Van Houten Gold Syndicate.
1940: Twelve trenches 500 feet in length, test pits totalling 450 feet by Van Houten Gold Mines Ltd.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1940	3	114	150

(ODM Statistical Files, Van Houten Gold Syndicate).

References: ODM Vol.50, pt.1, p.140, 141; pt.2, p.46-47
Canadian Mines Register 1960, p.396

49°30' - 92°45'

Rognon Mine (Past Producer)

Main Metals: Au.

Location: NTS 52/F/10/W, Lat. 49°30', Long. 92°45', northwest shore Contact Bay of Wabigoon Lake about 6 miles south of Dryden. Shaft on old claim K635.
Map Reference: ODM Map 50e, Dryden-Wabigoon area.

Geology: Intermediate to mafic Keewatin lavas have been intruded by a gabbro boss and a granite batholith. The gold-bearing vein, cutting the lava, strikes N68°W and varies in width from 2 inches to 2 feet. The quartz in the vein is impregnated by hematite.

Ownership: Unknown; Bonanza United Mines Ltd. acquired property in 1926 but is now defunct.

History: 1916: Some pitting; stripping along the entire length of the vein of about 1,500 feet; shaft started by E.G. Rognon.
1917, 1918: 80° inclined shaft 70 feet, lateral development 60 feet by Rognon Gold Mines Ltd.
1919: Shaft deepened to 106 feet; two levels with 197 feet of lateral development by Contact bay Mines Ltd.
1923: Trenching and pitting by Contact Bay Mines Ltd.

Production:

Years	Gold ounces	Total Value dollars	Ore Milled tons
1916-18	22	455	49

(ODM Statistical Files, Rognon Gold Mines Ltd. Contact Bay Mines Ltd.).

References: OBM Vol.26, pt.1, p.184
OBM Vol.27, pt.1, p.87
ODM Vol.33, pt.7, p.18
ODM Vol.50, pt.2, p.49.

49°30' - 92°45'

Wachman Prospect

Main Metals: Au, Ag.

Location: NTS 52/F/10/W, Lat. 49°30', Long. 92°45', northwest side of Contact Bay, Wabigoon Lake, 6 miles south of Dryden, and northwest of Rognon Mine. Shaft on old claim K646.
Map Reference: ODM Map 50e, Dryden-Wabigoon area.

Geology: Intermediate to mafic Keewatin lavas are cut by quartz veins. The shafts were sunk on a narrow vein dipping 85°N.

Ownership: Unknown; acquired in 1935 by Northern Mines Inc. but charter reported surrendered early 1961.

History: 1919-20: No. 1 shaft 31 feet and No. 2 shaft 400 feet to the west, 100 feet deep by Wachman Mining and Milling Co. Ltd.
1923: No. 1 shaft deepened to 63 feet and in No. 2 shaft, 40 feet drifting by Wabigoon Contact Bay Gold Mines Ltd.
1935: Minor surface and underground work by Northern Mines Inc.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1929	8	34	182	34

(ODM Statistical Files, Wabigoon-Contact Bay Gold Mines Ltd.).

References: ODM Vol.50, pt.2, p.52
Canadian Mines Register, 1st supplement, p.57.

49°30' - 93°00'

Baden Powell Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/F/11/E, Lat. 49°30', Long. 93°00', on South Twin Island in southwest part of Eagle Lake. Shafts on FM168.
Map Reference: ODM Map 48d, Eagle Lake area.

Geology: Granite is cut by three northwest-striking quartz veins bordered by zones of alteration and containing sparse pyrite and native gold. The grade of the 163 tons of ore milled averaged 1.77 ounces of gold per ton.

History: 1900: Stripping and pitting by J.A. Partington, E. Appleton, S. Pinchon and S.S. Forneri.
1902: 40 tons of ore tested at Eldorado Mill. Property under direction of R.H. Ahn.
1903-06: The main shaft was sunk on the main open cut, at an inclination of 67°W to a depth of 140 feet and 2 levels established, the first at 60 feet, on which 129 feet of drifting was performed. Another shaft, situated 200 feet southwest of the main shaft, was sunk to a depth of 50 feet. A 5-stamp mill was erected. Work by Northern Lights Mines Co.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1902-05	288	6	4,952	163

(ODM Statistical Files, Northern Lights Mines Co., Baden Powell Mine).

References: OBM Vol.10, p.96
OBM Vol.13, pt.1, p.65
OBM Vol.15, pt.1, p.54
ODM Vol.48, pt.4, p.23.

49°30' - 93°15'

Eldorado Prospect

Main Metals: Au.

Location: NTS 52/F/11/W, Lat. 49°30', Long. 93°15', on the north shore of Eldorado Bay, southwestern part of Eagle Lake. Shaft on claim MH257. Map Reference: ODM Map 48d, Eagle Lake area.

Geology: Granite containing blue quartz blebs has been silicified along a shear zone, 500 feet long, from 3 to 5 feet wide, striking 70°E, which has been impregnated with fine-grained pyrite. The average grade of the 30 tons of ore milled was 0.47 ounces of gold per ton.

History: 1900: Trenching, and 2 stamp mill erected by E. Gatensburg.
1902-04: Shaft inclined 73°NW, sunk to a depth of 60 feet. Work by The Northern Lights Mines Co.
1904-05: Shaft continued to 120 feet with levels at 70 and 120 feet. Drifting totalled 153 feet and crosscutting 25 feet. Work by Eldorado Mining Co.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1904	14	251	30

(ODM Statistical Files, Eldorado Mining Co.).

References: OBM Vol.10, p.96-97
OBM Vol.13, pt.1, p.65
OBM Vol.14, pt.1, p.49
OBM Vol.15, pt.1, p.53-54
ODM Vol.48, pt.4, p.23-24.

49°30' - 93°15'

Grace Prospect

Main Metals: Au.

Location: NTS 52/F/11/W, Lat. 49°30', Long. 93°15', on southwest shore Eagle Lake, southwest of Pioneer Island and south of Temple Township. Shaft on claim MH251.
Map Reference: ODM Map 48d, Eagle Lake area.

Geology: Granite surrounds a northeast-striking belt of massive Keewatin mafic lavas. Six narrow veins striking mostly northeast occur in the granite. The veins contain galena, sphalerite and pyrite as associated sulphides.

Ownership: Unknown; acquired by Eagle Lake Soapstone Mines Ltd. in 1928, charter cancelled July 1960.

History: 1902, 1903, 1907, 1908, 1920-22: Trenching; adit driven northwest for 160 feet with 70 feet of drifting. Shaft No. 1 average inclination 86°, depth 187 feet with levels at 100 and 180 feet, and 150 feet of lateral development. Shaft No. 2 vertical, 29 feet deep and 96 feet southwest of No. 1 shaft. Work by Grace Mining Co. Ltd.

Production:

Years	Gold ounces	Total Value dollars	Ore Milled tons
1902, 1907 1908	69	865	415

(ODM Statistical Files, Grace Mining Co. Ltd.).

References: OBM Vol.13, pt.1, p.64
OBM Vol.20, pt.1, p.196
ODM Vol.30, pt.1, p.63
ODM Vol.31, pt.10, p.16
ODM Vol.32, pt.6, p.20
ODM Vol.48, pt.4, p.23
Canadian Mines Register, 1st supplement, p.29.

49°30' - 94°15'

Ophir Mine (Past Producer)

Main Metals: Au.

Location: NTS 52/E/09/W, Lat. 49°30', Long. 94°15', west side Sultana Island, Bald Indian Bay portion of Lake of the Woods, 6 miles southeast of Kenora. Map Reference: ODM Map 39f, Bigstone Bay area.

Geology: Keewatin basalts have been intruded by a granite stock. Veins in sheared porphyry within the granite are up to 6-1/2 feet wide and consist of alternating bands of quartz and chlorite schist. In the shaft area the vein dips 60°NW and the mineralization extends down to 100 feet. An assay of $42.60 in gold per ton has been reported.

History: 1890's: Shaft 50 feet by Ontario Mining Co.
1911-12: Shaft deepened to 160 feet, levels at 40 and 100 feet with some drifting under management of Mr. Nickerson.

Production: 6,089 tons during 1893, 1894, 1900 and 1911, value $22,677 (ODM Vol.49, pt.1, p.22).

References: ODM Vol.20, pt.1, p.171
ODM Vol.21, pt.1, p.100
ODM Vol.22, pt.1, p.226-227
ODM Vol.30, pt.2, p.58
ODM Vol.34, pt.6, p.19-20.

49°30' - 94°15'

Sultana Mine (Past Producer)

Main Metals: Au.

Location: NTS 52/E/09/W, Lat. 49°30', Long. 94°15', northwest part of Sultana Island situated in the northeast part of Lake of the Woods, about 7 miles southeast of Kenora. Shaft on old claim X42. Map Reference: ODM Map 2115, Kenora-Ft. Frances Sheet.

Geology: Folded Archean mafic volcanics, chert and quartz porphyry striking northeast, all intruded by porphyritic granite. At least five quartz veins are present in quartz porphyry and in mafic volcanics near the granite contact. At and near the surface the veins, which were first identified by numbers and later by names, are up to 20 feet wide but become thinner with depth. In addition to gold the near vertical dipping veins contain pyrite and molybdenite. Initially the ore is supposed to have graded as high as $8 per ton.

Ownership: Last recorded as Strathcona Mines Ltd., dissolved in 1966.

History: 1890-99: Prospecting and numerous openings in early stage of development. In 1892 shafts were sunk on veins No. 1 and 2 to depths of 30 feet in addition to an exploratory shaft to the north. These were abandoned and a new shaft sunk on No. 3 vein to 466 feet with levels at 60, 120, 180, 256, 330, 393 and 461 feet. A number of winzes connected the levels. Shafts were also sunk on Crown Reef, 122 feet and Pasha vein (No. 3 shaft) 75 feet deep. Extensive lateral development was done but exact figures are not available. An abandoned shaft later known as Galena shaft was deepened to below 60 feet and used as an air shaft. Daily capacity of mill opened in 1892 was 20 to 30 tons. Work by J.F. Caldwell.

1899-1903: Shafts deepened - main to 545 feet with 8th level at 535 feet, Galena to 164 feet, Crown Reef to 143 feet. At least 3 diamond drill holes totalling 771 feet. Work by Sultana Mines of Canada Ltd.

1903-06: Main shaft continued to 600 feet and some diamond drilling. Work by Sultana Gold Mines Ltd.

1934-35: 452 feet of lateral work on levels 4 and 7 and 3,512 feet of underground drilling. Work by Selected Canadian Gold Ltd., subsidiary of Ventures Ltd., who held an option.

1943: Dump sampled for tungsten.

1949: Clean up work.

1959-60: Surface exploration including trenching and 12 diamond drill holes totalling 7,821 feet. Work by Strathcona Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1894-1902, 1904-06, 1949	15,977*	4	431,138	77,481

* No figures available for 1894-96.
(ODM Statistical Files, Sultana Gold Mines Ltd.).

References: Royal Commission 1890, p.64, 109, 118, 446
OBM Vol.3, p.16-19
OBM Vol.9, p.38-42
ODM Vol.34, pt.6, p.15-19
ODM Vol.44, pt.1, p.139
ODM Vol.45, pt.1, p.156
ODM Vol.59, pt.1, facing p.10 and p.20
Canadian Mines Handbook 1960, p.238

49°30' - 94°30'

Kenricia Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/E/10/E, Lat. 49°30'. Long. 94°30', northeast corner of Clearwater Bay, Lake of the Woods, about 9 miles southwest of Kenora. Shaft on claim P211.
Map Reference: ODM Map 45b, North-central part of the Lake of the Woods.

Geology: Felsic volcanic agglomerate with occasional intercalated basalt flows has been intruded locally by massive quartz porphyry dikes. A number of veins in agglomerate strike east approximately parallel to the schistosity, dip almost vertically and are up to 7-1/2 feet wide. Associated metallic minerals are pyrite, chalcopyrite and galena. The average grade of ore milled was 0.11 ounces of gold per ton.

History: 1889-90: On two veins three shafts were sunk to depths of 57, 48 and 30 feet respectively. Work by Mr. Oliver Daunais.
1935-36: Trenching and diamond drilling by Messrs. Errington and Greenland.
1936-40: Surface drilling 5,684 feet, underground drilling totalling 5,609 feet. Vertical shaft sunk on vein No. 3 to 530 feet depth with levels at 200, 350 and 500 feet. Drifting 5,431 feet and crosscutting 1,509 feet. Mill capacity 100 tons. Work by Kenricia Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1939-40	2,533	521	97,518	22,344

(ODM Statistical Files, Kenricia Gold Mines Ltd.).

References: OBM Vol.6, p.252
ODM Vol.45, pt.3, p.31-36
ODM Vol.50, pt.1, p.60
ODM P.R.1965-2, p.42.

49°30' - 95°00'

Cameron Island Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/E/11/E, Lat. 49°30', Long. 95°00', northwest of Stephens Island, central portion of Shoal Lake about 28 miles southwest of Kenora.
Map Reference: ODM Map 39e, Shoal Lake area.

Geology: Keewatin basaltic rocks in the northwestern and diorites in the southeastern portion of the island have been cut by porphyries, and northeast-striking quartz veins. The main vein, which is up to 16 feet wide and over 700 feet long, extends under the lake to the southwest of the island. The ore, high in arsenopyrite, is partly in talc schist.

Economic Features: Drilling and development work indicated down to 800-foot depth, 400,000 tons averaging 0.40 ounces gold per ton (Canadian Mines Handbook 1968-69, p.124).

Ownership: Duport Mining Co. Ltd.

History: 1897: Some stripping and a 75° inclined shaft was started by J.J. Foster.
1898-1900: Inclined shaft deepened to 132 feet; lateral development 683 feet on 62- and 125-foot levels; 66-foot tunnel by Cameron Island Mining and Development Co. Ltd.
1915: 5-ton mill run by Cameron Island Syndicate.
1928-29: 4,000 feet of surface drilling by Ventures Ltd.
1933-36: Drilling through the ice southwest of the island; underground drilling; 75° inclined winze 245 feet; lateral development 2,371 feet on 125-, 250- and 375-foot levels by Duport Mining Co. Ltd.
1940: Surface drilling, details unknown.
1950-51: Geophysical surveys; surface and underground drilling by Matachewan Consolidated Gold Mines for Duport Mining Co. Ltd.
1964-67: Diamond drilling, details unknown.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1898, 1906,	35	-	580	72
1934-36	4,637	1,143	163,291	1,215
	4,672	1,143	163,871	1,287

(ODM Statistical Files, Duport Mining Co. Ltd., Cameron Island - (Damascus).

References: OBM Vol.7, p.55
OBM Vol.25, pt.1, p.66
ODM Vol.44, pt.4, p.44-47, 92
ODM Vol.45, pt.3, p.47-51
ODM Vol.46, pt.1, p.130
ODM Vol.61, pt.2, p.25
Financial Post Survey 1968, p.186.

49°45' - 91°45'

Burnthut Island Prospect

Main Metals: Au.

Location: NTS 52/G/13/W, Lat. 49°45', Long. 91°45', Burnthut Island is located at the entrance to Troutfish Bay on north side of Minnitaki Lake, 8 miles south-southwest of Sioux Lookout. Showings on location HW446.
Map Reference: ODM Map 41h, Sioux Lookout area.

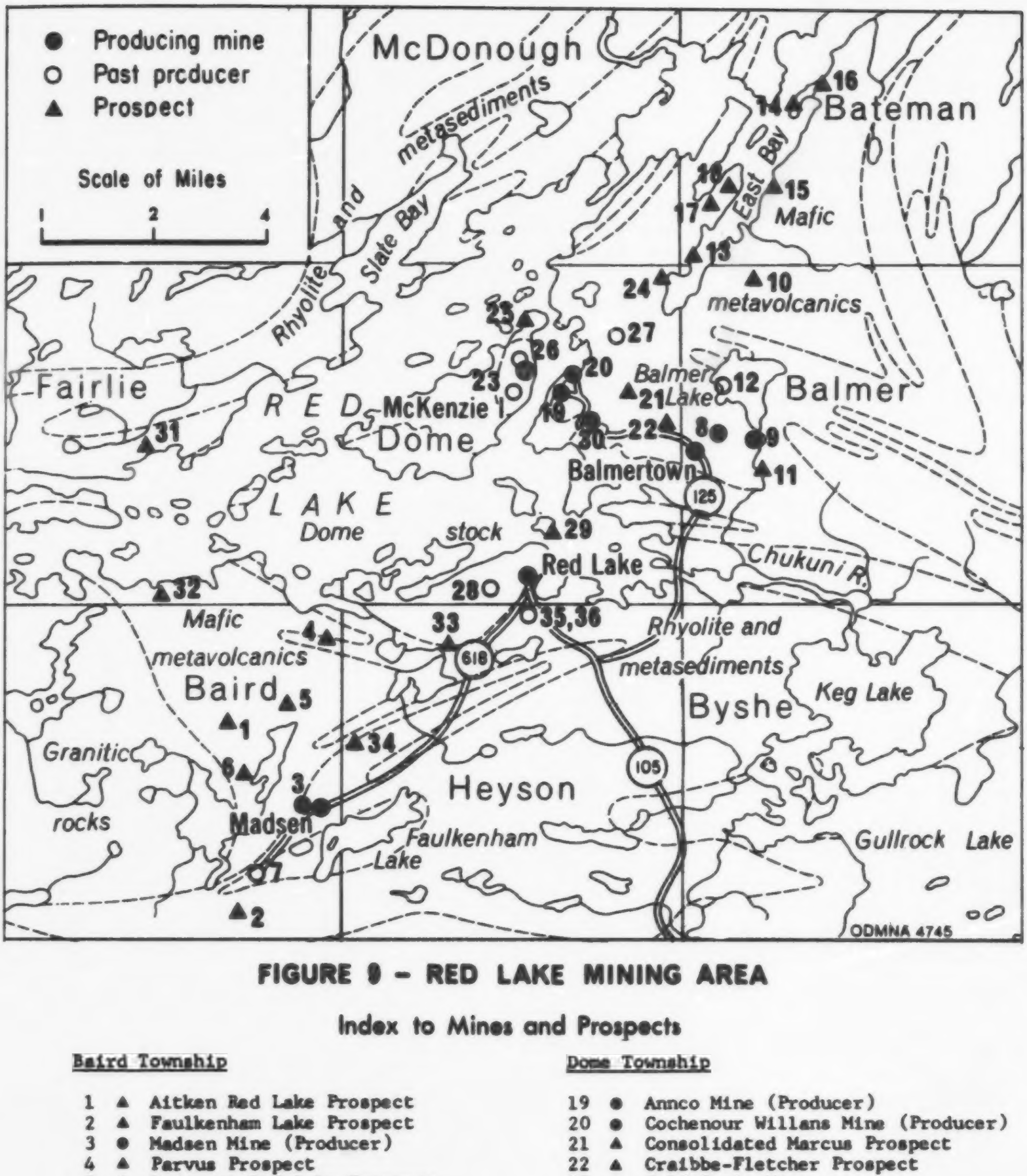

● Producing mine
○ Past producer
▲ Prospect
Scale of Miles
1
2
4
McDonough
metasediments
and
Rhyolite
Slate Bay
Bateman
East Bay
Mafic
metavolcanics
Fairlie
RED LAKE
McKenzie I.
Dome
Balmer Lake
Balmer
Balmertown
125
Dome stock
Red Lake
Chukuni R.
Mafic metavolcanics
Rhyolite and metasediments
618
Baird
Byshe
Keg Lake
Granitic rocks
105
Heyson
Madsen
Faulkenham Lake
Gullrock Lake
ODMNA 4745

FIGURE 9 - RED LAKE MINING AREA

Index to Mines and Prospects

Baird Township

1 ▲ Aitken Red Lake Prospect
2 ▲ Faulkenham Lake Prospect
3 ● Madsen Mine (Producer)
4 ▲ Parvus Prospect
5 ▲ Redaurum Red Lake Prospect
6 ▲ Russet Red Lake Prospect
7 ○ Starratt-Olsen Mine

Balmer Township

8 ● Campbell Red Lake Mine (Producer)
9 ● Dickenson Mine (Producer)
10 ▲ Redcon Prospect
11 ▲ Robin Red Lake Prospect
12 ○ Young, H.G. Mine

Bateman Township

13 ▲ Abino Prospect
14 ▲ Beatrice Prospect
15 ▲ Duchesne Red Lake Prospect
16 ▲ Forsyth Prospect
17 ▲ Inore Prospect
18 ▲ McFinley Prospect

Dome Township

19 ● Annco Mine (Producer)
20 ● Cochenour Willans Mine (Producer)
21 ▲ Consolidated Marcus Prospect
22 ▲ Craibbe-Fletcher Prospect
23 ○ Gold Eagle Mine
24 ▲ Kaymac Prospect
25 ▲ McCuaig Prospect
26 ○ McKenzie Mine
27 ○ McMarmac Mine
28 ○ Red Lake Gold Shore Mine
29 ▲ Sanshaw Prospect
30 ● Wilmar Mine (Producer)

Fairlie Township

31 ▲ Alcourt Prospect
32 ▲ Humlin Prospect

Heyson Township

33 ▲ Buffalo Red Lake Prospect
34 ▲ Derlak Red Lake Prospect
35 ○ Hasaga Mine
36 ○ Howey Mine

Geology: Mainly underlain by Keewatin mafic volcanics with a sheared quartz porphyry body at the south end of the island. Quartz veins occur in a shear zone along the contact. The main vein ranges from 3 to 4 feet in width and extends for 1,300 feet.

Ownership: Ourgold Mining Co. Ltd.

History: 1897-98: Shaft 50 feet by Harvey Syndicate.
1947, 1948: Surface work and 21 diamond drill holes totalling 6,082 feet by Ourgold Mining Co. Ltd.
1961-62: 2,300 feet diamond drilling by Ourgold Mining Co. Ltd.

References: OBM Vol.8, pt.1, p.70
ODM Vol.41, pt.6, p.21
Mineral Resources Branch, file Burnthut Island.

KENORA DISTRICT
PATRICIA PORTION

BAIRD TOWNSHIP

Aiken Red Lake Prospect

Main Metals: Au.

Location: Central portion of northern half Baird Township nearly 2 miles south of Red Lake and about 2 miles northwest of Madsen.
Map Reference: ODM Map 2072, Baird Township - eastern part.

Geology: Massive and pillowed phases of metabasalts with bands of chert and lean iron formation have been intruded by irregular masses of metagabbro. Later intrusions include granodiorite and quartz-feldspar porphyries. No. 1 vein zone near a diorite dike has widths from 6 to 26 feet in trenches. Drilling indicated a section 110 feet long by 3.8 feet wide averaging 0.14 ounces of gold per ton. The best mineralization located by drilling was 102,555 tons grading 0.22 ounces of gold per ton (Northern Miner, March 14, 1968, p.246).

Ownership: Aiken-Russet Red Lake Mines Ltd.

History: 1936-38: Surface work by Ross Red Lake Syndicate.
1938-45: Some surface work by Flat Lake Gold Mines Ltd.
1945-46: Trenching 5,000 feet and drilling 5,000 feet by Aiken Red Lake Gold Mines Ltd.

References: ODM G.R.39, p.22.

Faulkenham Lake Prospect

Main Metals: Au.

Location: Southeast portion of Baird Township, in the Red Lake area. Shaft on claim KRL12881.
Map Reference: ODM Map 2072, Baird Township - eastern part.

Geology: Quartz latite is intruded by an east-trending granodiorite dike containing a discontinuous fracture zone striking S73°E and dipping about 85°N. Quartz lenses in the fracture zone, which has been traced for 890 feet on surface, are up to 75 feet long and up to 29 inches wide. Gold is associated with pyrite and minor chalcopyrite, sphalerite and galena.

Economic Features: On the 125-foot level a section 41 feet long and 1.4 feet wide averaged 0.36 ounces of gold per ton; another section 58 feet long and 8.8 feet wide averaged 0.34 ounces of gold per ton.

Ownership: Starratt Nickel Mines Ltd.

History: 1936-38: Trenching. Surface drilling totalling 5,564 feet. Vertical shaft sunk to 344 feet with levels at 125, 225 and 325 feet. Drifting 1,129 feet and crosscutting 454 feet. Thirty-one underground drill holes totalling 1,445 feet. Work by Faulkenham Lake Gold Mines Ltd.
1958: Surface drilling totalling 4,673 feet by New Faulkenham Mines Ltd.

References: ODM Vol.47, pt.1, p.122, 123
ODM Vol.49, pt.2, p.103-106
ODM G.R.39, p.28, 29.

Madsen Mine (Producer)

Main Metals: Au, Ag.

Location: 96 claims in Baird and Heyson Townships, 7-1/2 miles by road southwest of Red Lake and northeast of Staratt Olsen Mine.
No. 2 shaft on claim KRL12528.
Map Reference: ODM Map 2072, Baird Township - eastern part.

Geology: Early Precambrian uniform basalts, overlying tuff beds and porphyritic latite have been intruded by an altered peridotite dike, post-ore diorite dikes and plutons of metagabbro. The country rocks have been folded into a series of anticlines and synclines striking northeast. The orebodies, occurring as lenticular, silicified and carbonatized zones in tuff along the limb of a fold, dip more steeply to the southeast than the country rocks. Gold occurs mostly as disseminations in non-opaque minerals but is also associated with minor metallic minerals. Average grade of ore milled until 1967 was 0.30 ounces of gold per ton.

Economic Features: Canadian Mines Handbook 1969-70, p.219 records the ore reserves as of December 31, 1968 as 336,700 tons averaging 0.27 ounces of gold per ton. Most of the reserves occur between the 17th and 23rd levels.

Ownership: Madsen Red Lake Gold Mines Ltd.

History: 1935-67: 2 vertical shafts. No. 1 on KRL11505 to a depth of 573 feet between 1935 and 1936 when it was abandoned. 5 levels, first at 100 feet, remainder at 112-foot intervals. Total drifting 2,381 feet and 675 feet crosscutting. No. 2 on KRL12528 to a depth of 4,176 feet with 24 levels, first at 200 feet, remainder at 150-foot intervals, except between levels 11 and 12 which is 200 feet. Total drifting 169,860 feet and crosscutting 32,203 feet. 398 surface holes totalling 184,044 feet and 11,690 underground holes totalling 1,923,823 feet. Mill commenced operation with 300 ton per day capacity, later increased to 800 tons per day. Work by Madsen Red Lake Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1938-68	2,113,836	398,373	76,287,518	7,216,619	10,339,905

(ODM Statistical Files, Madsen Red Lake Gold Mines Ltd.)

References: ODM Vol.45, pt.1, p.138
ODM Vol.46, pt.1, p.175
ODM Vol.49, pt.2, p.15, 174-181
ODM G.R.39, p.23-28.

Parvus Prospect

Main Metals: Au.

Location: Northeast corner of Baird Township, about 1/2 mile south of St. Paul Bay, and 4 miles west of Red Lake. Mine showings on claims K1523, K1572, K1573 and K1575.
Map Reference: ODM Map 2072, Baird Township - eastern part.

Geology: Massive and pillowed phases of metabasalts overlain by felsic metavolcanics have been folded in a series of easterly-trending anticlines and synclines. Intrusions consist of sill-like bodies of hornblendite and serpentinite. Trenching and drilling indicated at least four zones of discontinuous quartz veins. No. 2 zone trends east for 3,000 feet in quartz latite and includes a section of 150 feet averaging 0.253 ounces of gold per ton over 5-foot width. Five drill holes at 100-foot intervals along No. 4 zone intersected in basalt an average of 0.097 ounces of gold per ton over 7.5-foot width. Associated sulphides include pyrite, arsenopyrite, chalcopyrite and sphalerite.

Ownership: Parvus Mines Ltd. controlled by Dickenson Mines Ltd.

History: 1925-26: Trenching by Dome Mines Ltd.
1937-40: Stripping and trenching by W.C. Durham and J.E. Durham.
1945-48: Diamond drilling totalling 15,749 feet by Durham Red Lake Gold Mines Ltd.
1962: Diamond drilling by Parvus Mines Ltd.

References: ODM Vol.49, pt.2, p.102, 103
Survey of Mines 1949, p.204
Canadian Mines Handbook 1961, p.189
Mineral Resources Branch, file, Parvus
ODM G.R.39, p.29, 30.

Redaurum Red Lake Prospect

Main Metals: Au.

Location: South of St. Paul Bay and north of Russett Lake in the northeastern portion of Baird Township. Shaft on K1541 (KRL12252). Map Reference: ODM Map 2072, Baird Township - eastern part.

Geology: Mafic and intermediate metavolcanics with local zones of banded chert and lean iron formation contain shear zones with quartz stringers and lenses. Variable amounts of sulphides, including arsenopyrite, are associated.

Economic Features: The highest concentrations of gold were found in the "shaft" zone and in 14A zone (KRL13080). The former contained up to 0.96 ounces per ton, 12.2 feet near surface, but appears not to extend down to the 150-foot level. At the latter a drill hole intersected 1.12 ounces per ton over 5 feet.

Ownership: Redaurum Red Lake Gold Mines Ltd.

History: 1936-38: Trenching 650 feet. Twenty-four surface drill holes totalling 5,612 feet. Vertical shaft to 330 feet with levels at 45, 150 and 300 feet. Lateral development totals 975 feet. Twenty-two underground drill holes. Work by Paulore Gold Mines Ltd.
1937: Seven surface holes drilled by Rajah Red Lake Gold Mines Ltd.
1939: Two surface holes totalling 883 feet drilled by Howey Gold Mines Ltd.
1944-46: About 15,000 feet of surface drilling by Redaurum Red Lake Gold Mines Ltd.

References: ODM Vol.47, pt.1, p.189
ODM Vol.49, pt.2, p.193-195, 197, 198
Canadian Mines Handbook 1946, p.263
ODM G.R.39, p.30-32.

Russet Red Lake Prospect

Main Metals: Au.

Location: Central portion of eastern half Baird Township, west of Russet Lake and about 1 mile northwest of Madsen. Drilling concentrated on claims KRL12727, 19181, 19235 and 19238.
Map Reference: ODM Map 2072, Baird Township - eastern part.

Geology: Massive and pillowed phases of metabasalts trending north-northwest have been intruded by sill-like bodies of metagabbro and serpentinite with a northerly strike. Assays from 'A' and 'B' parallel zones, about 40 feet apart, varied from 0.095 ounces of gold per ton over 4.8-foot width to 3.24 ounces over 1.5 feet. A third zone near the centre of the property is 780 feet long with assays of 1.86 ounces over 2.5 feet and 0.527 ounces over 8.8 feet.

Ownership: Aiken-Russet Red Lake Mines Ltd.

History: 1936-37: Magnetometer survey, stripping and some diamond drilling by Russet Red Lake Syndicate.
1943-47: Geophysical survey and 25,000 feet of drilling was done on the north and central sections of the property by Russet Red Lake Gold Mines Ltd.

References: ODM Vol.49, pt.2, p.207
Survey of Mines 1947, p.206
ODM G.R.39, p.34.

Starratt Olsen Mine (Past Producer)

Main Metals: Au, Ag.

Location: Southeastern portion of Baird Township and adjoining on the northeast side Madsen Mine. Shaft on claim KRL12730.
Map Reference: ODM Map 2072, Baird Township - eastern part.

Geology: Uniform basalt, interbeds of well-banded garnetiferous tuff, and overlying welded tuff dipping steeply to the southeast have been cut by sill-like bodies of metagabbro and peridotite, and occur between two major granodiorite intrusions. Most persistent ore lenses were in the "North" tuff but some lenses also occurred in the "Creek Zone" tuff. The gold is not associated with sulphides to any appreciable extent. The average gold grade of ore milled was 0.18 ounces per ton.

Economic Features: Canadian Mines Handbook 1969-70, p.337 reports an estimate of 15,000 tons averaging 0.45 ounces of gold in place.

Ownership: Starratt Nickel Mines Ltd.

History: 1934: Trenching under option by Hollinger Consolidated Gold Mines Ltd. on Olsen showing.

1936-37: Trenching. Diamond drilling totalling 10,661 feet. Vertical shaft (De Villiers) 45 feet deep on claim KRL12648 with 17 feet of crosscutting at 32-foot depth. Work by Val D'Or Mineral Holdings Ltd. under option.

1938: Surface drilling 1,194 feet, underground drilling 150 feet. No. 1 vertical shaft on claim KRL12730 sunk to 220 feet with level at 175 feet. Work done by Faulkenham Lake Gold Mines Ltd. under working option from Val D'Or Mineral Holdings.

1939-44: Forty underground holes and twenty-one surface holes totalling about 2,300 and 13,000 feet respectively. Shaft No. 1 deepened to 310 feet with additional level at 300 feet. Drifting 961 feet and crosscutting 287 feet. Developed by Hasaga Gold Mines Ltd. as Hasaga No. 2 property.

1945-56: Minor surface drilling. Nearly 1,800 underground holes totalling about 218,000 feet. Shaft No. 1 deepened to 2,129 feet with additional levels at intervals varying between 125 to 200 feet. Drifts 37,000 feet, crosscuts 950 feet. Mill capacity 500 tons per day. Work by Hasaga Gold Mines Ltd. for Starratt Olsen Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1948-56	163,990	27,432	5,874,128	907,813

(ODM Statistical Files, Starratt Olsen Gold Mines Ltd.).

References: ODM Vol.49, pt.2, p.133-138
ODM Vol.66, pt.2, p.83, 84
ODM G.R.39, p.35-40.

BALL TOWNSHIP

Cole Prospect

Main Metals: Au, Ag.

Location: Central and east-central part of Ball Township, on Pipestone Bay of Red Lake. Shaft on claim KRL1629.
Map Reference: ODM Map 49a, Red Lake area (West Sheet).

Geology: Felsic to mafic metavolcanics, predominantly talcosic and barren of quartz veins, are intruded by quartz porphyry which is in turn intruded by diorite and granodiorite, the latter bearing an intrusive relationship to both the others. Shear zones in quartz porphyry contain lenticular stringers and veins of quartz up to 700 feet long and from 2 to 8 feet wide. The general trend is easterly with a dip of 65°-75°N. Mineralization in veins consists of sulphides, scheelite and gold. Assay results of composite test samples are:

Gold ozs/tons	Silver ozs/tons	Level
1.32	0.61	200-foot
0.20	0.07	200- and 300-foot
0.34	0.35	various

Ownership: Cole Gold Mines Ltd.

History: 1926-33: Surface prospecting, stripping and trenching and commencement of shaft to a depth of more than 20 feet. Work by J.Y. Cole.
1933-69: Shaft continued to 530-foot depth, levels at 200, 300, 400 and 500 feet. Lateral work consisted of at least 7,000 feet. Diamond drilling of at least 5,000 feet and exploratory work. Work by Cole Gold Mines Ltd.

References: ODM Vol.49, pt.2, p.96-99
Canadian Mines Handbook 1969-70, p.91
Mineral Resources Branch, file, Cole.

Middle Bay Prospect

Main Metals: Au.

Location: North and west of west end of Trout Bay in south-central part of Ball Township. Shaft on claim 10727.
Map Reference: ODM Map P.338, Red Lake area.

Geology: Pillowed and massive phases of Keewatin basalt are intruded by quartz porphyry. A number of shear zones, striking N60°W and dipping 50°-80°NE, contain quartz veins up to several hundred feet long and usually not more than 3 feet wide. One lens averaged 0.28 ounces over a length of 60 feet and a width of 2-1/2 feet.

Ownership: Middle Bay Mines Ltd. holds 20 claims, Miles (Red Lake) Mines Ltd. holds 8 claims.

History: 1934-37: 23 surface holes totalling 6,107 feet drilled by Middle Bay Mines Ltd.
1936: 11 surface holes totalling 2,000 feet drilled by Cardinal Gold Mines Ltd.
1947-48: 299 feet vertical shaft, 380 feet lateral work on 154-foot level; 29 surface holes totalling 4,850 feet and 14 holes 1,630 feet underground drilling by Miles (Red Lake) Mines Ltd.

References: ODM Vol.49, pt.2, p.185-187
ODM Vol.57, pt.2, p.70-71
ODM Vol.58, pt.2, p.60
Financial Post Survey 1969, p.170.

BALMER TOWNSHIP

Abino Prospect

Main Metals: Au.

Location: A group of 18 claims in the western portion of the Balmer and Bateman Townships extending over a short distance into the Dome and McDonough Townships; shaft on claim KRL18033 (KRL1006), Bateman Township.*
Map Reference: ODM Map 2016, Bateman Township - southern part
ODM Map 1951-3, Township of Balmer.

Geology: Overburden is widespread but outcrops along the shores of East Bay, drilling and underground work suggest that the area is largely underlain by uniform basalts. The shaft is located on the axis of a west-plunging syncline of pillow lavas occuring on the west shore of East Bay near Abino Point. The pillow lavas are overlying a 300 feet thick zone of talc-carbonate rocks which are considered to be the alteration products of a serpentinite sill. Later intrusives consist of quartz-feldspar porphyry, metagabbro and finally narrow lamprophyre dikes.

Economic Features: The most persistent quartz vein containing small amounts of sphalerite, galena and arsenopyrite, extends in basalt from above the 200-foot level to below the 500-foot level. Length and width of the vein is about 200 feet and 6 to 14 inches respectively. The best assay obtained from this vein was 1.0 ounces of gold over 12 inches. Mineralization in silicified lenses of basalts within the talc-carbonate rock is uniform and persistent. Assays are generally ranging from 0.02 to 0.15 ounces gold per ton but occasionally samples contained as much as 0.84 ounces over 3.0 feet.

Ownership: Abino Gold Mines Ltd. in which Dickenson Mines Ltd. and Kam-Kotia have an interest of 40.1% and 17.7% respectively.

History: 1939-46: Stripping, trenching and magnetic survey. Thirteen drill holes were completed before 1945; a further 20 holes totalling 14,378 feet were drilled in 1946 by Abino Gold Mines Ltd.
1959-60: Shaft to 530 feet with levels at 200, 350 and 500 feet. Lateral development 3,000 feet. Eight surface holes totalling 5,000 feet; 89 holes underground totalling 19,584 feet by Abino Gold Mines Ltd.

References: ODM Vol.49, pt.2, p.73
ODM G.R.6, p.19-22
Canadian Mines Handbook 1968-69, p.17.

---

* Because of shaft location shown on map in Bateman Township.

Campbell Red Lake Mine (Producer)

Main Metals: Au, Ag.

Location: Twenty-seven claims in western part of Balmer Township near Balmer Lake and to the west of Dickenson Mine.
Map Reference: ODM Map 1951-3, Township of Balmer.

Geology: Northwest-striking massive and pillowed phases of metabasalts with interbeds of fragmental tuff and agglomerate have been intruded by pre-ore quartz-feldspar porphyry dikes, post-ore lamprophyre dikes and irregular masses of metadiorite. The ore zones dip steeply to the south and west. The principal orebody is the original South Zone (A) lying 125 feet south of the shaft and traceable down to the 2,950-foot level. Other well defined ore zones include the original North Zone, lying 600 feet north of the shaft, H and G zones north of the North Zone, high grade F zone 2,500 feet southwest of the shaft, and L zone 200 feet north of the shaft. The average grade of ore up to 1967 was 0.58 ounces of gold per ton.

Economic Features: At the end of 1968 the ore reserves, measured to the 18th level, were 1,288,400 tons, including 1,178,900 tons ore in place averaging 0.691 ounces of gold per ton and 109,500 tons broken (Canadian Mines Handbook 1969-70, p.67).

Ownership: Campbell Red Lake Gold Mines Ltd., a subsidiary of Dome Mines Ltd.

History: Pre 1944: Trenching exposed visible gold on KRL19670 by Messrs. Campbell.
1945-69: Vertical Shaft (No. 1) sunk to a total depth of 3,281 feet with 22 levels, the first four at 125-foot intervals and the remainder at 150-foot intervals. Total drifting 165,105 feet and crosscutting 28,339 feet. 479 surface holes totalling 164,436 feet and 4,515 underground holes totalling 746,068 feet. Mill commenced operation with capacity of 300 tons per day, later increased to 700 tons per day. Work by Campbell Red Lake Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1949-68	2,644,866	189,135	95,537,802	4,529,513	24,446,933

(ODM Statistical Files, Campbell Red Lake Gold Mines Ltd.).

References: ODM Vol.60, pt.10, p.35-39
ODM Vol.77, p.20-22
Canadian Mines Handbook 1946, p.55
Canadian Mines Handbook 1969-70, p.67.

Dickenson Mine (Producer)

Main Metals: Au, Ag.

Location: Central western portion of Balmer Township, south of Balmer Lake adjoining Campbell Red Lake Mine to the east. Shaft on KRL19497. Map Reference: ODM Map 1951-3, Township of Balmer.

Geology: Massive and pillowed metabasalts, carbonatized breccia, interbedded siliceous iron formation, and sedimentary rocks have been intruded by diorite masses. The general strike is northwest with near vertical dip but local deviations occur due to folding. The orebodies, occurring in basalts, are from 5 to 20 feet wide and consist of a number of lenses with a general strike of about N50°W and a dip of 70°S. The production to date has been from the top 22 levels, mainly from the North "C", South "C", East South "C", "D" and "F" ore zones. The average grade of ore milled up to 1967 was 0.50 ounces of gold per ton.

Economic Features: The Northern Miner of August 14, 1969, page 6 (840) reports the ore reserves as 514,451 tons averaging 0.497 ounces per ton at June 30, 1969.

Ownership: Dickenson Mines Ltd.

History: 1945-49: Geophysical and geological surveying. Drilling concentrated in NW corner. Vertical shaft (No. 1) sunk 543 feet with four levels at 125-foot intervals. Total drifting 4,954 feet and crosscutting 5,503 feet. 28 surface holes totalling 15,318 feet and 259 underground holes totalling 32,973 feet. Mill commenced operation with capacity of 150 tons per day. Work by Dickenson Red Lake Mines Ltd.

1949-60: No. 1 shaft sunk 3,046 feet to a depth of 3,589 feet with a further nineteen levels at 150-foot intervals. Total drifting 48,791 feet and crosscutting 33,357 feet; 27 surface holes totalling 7,313 feet and 2,719 underground holes totalling 424,222 feet. Increase in mill capacity to 470 tons per day. Work by New Dickenson Mines Ltd.

1960-67: No. 2 vertical shaft started from 3,365-foot level (23rd) and sunk 1,249 feet to vertical depth below surface of 4,614 feet. 8 levels at 147-foot intervals. Total drifting 34,331 feet and crosscutting 27,852 feet. 7 surface holes totalling 6,326 feet and 2,229 underground holes totalling 369,515 feet. Exploratory work done on the old Detta property. Work by Dickenson Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1948-68	1,426,015	121,619	51,244,774	2,894,039	7,411,712

(ODM Statistical Files, Dickenson Mines Ltd.).

References: ODM Vol.60, pt.10, p.50-53
ODM Vol.76, p.26-27
Canadian Mines Handbook 1949, p.66, 149
Canadian Mines Handbook 1961, p.167.

Redcon Prospect

Main Metals: Au.

Location: Property consists of 43 claims in the northwestern part of Balmer Township extending into the central southern section of Bateman Township about 2-1/2 miles north of Dickenson Mine and 7-1/2 miles northeast of Red Lake.
Map Reference: ODM Map 1951-3, Township of Balmer
ODM Map 2016, Bateman Township - southern part.

Geology: Most of the property covered by swamps and overburden. Few sporadic outcrops of andesite, carbonatized greenstone and amphibolite; drill holes intersected also feldspar porphyry and diorites. The strike of schistosity in andesites swings from southwest in the south to north with steep westerly dips just south of Bateman Township. A drill hole on claim KRL20888 intersected 0.8 feet assaying 0.12 ounces of gold per ton in quartz-carbonate vein occurring in a brecciated zone in andesite. A hole southeast of KRL20893 intersected arsenopyrite and over 0.05 ounces of gold per ton in a 6-inch quartz stringer in andesite.

Ownership: Redcon Gold Mines Ltd.

History: 1945: Trenching 270 feet and 12 X-ray holes by The Consolidated Mining and Smelting Co. of Canada.
1947: Four drill holes by Redcon Gold Mines Ltd.
1952-53: Over 8,000 feet of diamond drilling by Redcon Gold Mines Ltd.
1959-60: Geophysical survey and diamond drilling by Redcon Gold Mines Ltd. in participation with Rio Canadian Exploration and Dickenson Mines.

References: ODM Vol.60, pt.10, p.54, 55
Canadian Mines Handbook 1953, p.174
Canadian Mines Handbook 1961, p.207
Mineral Resources Branch, file, Redcon.

Robin Red Lake Prospect

Main Metals: Au.

Location: Southeast of and adjacent to Dickenson Mine about 5 miles east of Red Lake in the southwest corner of Balmer Township. Claims KRL20779 to 20783 and 20793 to 20199.
Map Reference: ODM Map 1951-3, Township of Balmer.

Geology: Prospect is largely covered with swamps and overburden. Drill hole information and small sporadic outcrops suggest that the area is underlain by siliceous Timiskaming-type sediments including iron formation, with a local intrusion of feldspar porphyry and a minor flow of andesitic composition. The strata strike to the northwest and dip 45°-70°SW.

Economic Features: Northern Miner 1969, p.840 reports that drifting extending from the 16th to 23rd levels of Dickenson Mine developed a total overall footage of 1,700 feet averaging 0.75 ounces of gold over a width of 6.9 feet.

Ownership: Robin Red Lake Mines Ltd.; operations financed 50% by Dickenson Mines, 25% by Noranda Mines and 25% by Dome Mines.

History: 1946: Magnetic surveys, 12 surface holes totalling 7,239 feet directed by Noranda Mines and Dome Exploration (Canada) for Robin Red Lake Mines Ltd.
1956- : Underground drilling from drifts extending from the 8th, 15th, 17th, 19th and 23rd levels of Dickenson Mine. Development to the end of 1966 includes about 40,000 feet of drilling, 3,389 feet of drifts and 874 feet of crosscuts. Linecutting and surface exploration. Work done for Robin Red Lake Mines Ltd. by New Dickenson Mines which changed its name to Dickenson Mines in October 1960.

References: ODM Vol.60, pt.10, p.55
Canadian Mines Handbook 1967-68, p.290.

H.G. Young Mine (Past Producer)

Main Metals: Au, Ag.

Location: Northwest part of Balmer Township, to the north of Campbell Red Lake Mine, and running eastwards from the western shore of Balmer Lake. Shaft on KRL20068.
Map Reference: ODM Map 1951-3, Township of Balmer.

Geology: Metavolcanics and folded metasediments, striking N55°W with an isoclinal dip of 70°S, have been intruded by porphyry dikes. Up to 1,000 feet long quartz-veined zones in volcanic rocks underlying Balmer Lake were reported to strike N35°W and dip 80°SW. Gold is associated with minor sulphides. The ore milled averaged 0.19 ounces of gold per ton.

Ownership: H.G. Young Mines Ltd.

History: 1946-63: A single shaft was sunk to a depth of 1,052 feet with levels at 259, 385, 509, 634, 784 and 934 feet. Lateral work consisted of 9,078 feet of drifting and 5,822 feet of crosscutting. Diamond drilling consisted of more than 35 surface holes totalling 41,810 feet and 239 underground holes totalling 69,299 feet. Mill with capacity of 400 to 500 tons was bought from Starratt Olsen Mines.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1960-63	55,244	5,680	2,006,396	288,179

(ODM Statistical Files, H.G. Young Mines Ltd.).

References: ODM Vol.60, pt.10, p.57-59
ODM Vol.69, pt.2, p.25
Canadian Mines Handbook 1960, p.261
ODM Vol.72, p.31.

BATEMAN TOWNSHIP

Beatrice Prospect

Main Metals: Au.

Location: Centre of Bateman Township, east side of East Bay of Red Lake.
Map Reference: ODM Map 2016, Bateman Township - southern half.

Geology: Main workings are located on a peninsula underlain by granodiorite which occurs just west of northeasterly-trending serpentinite and mafic metavolcanics. Discontinuous veins ranging from 1 inch to 7 feet in width and variable in strike and dip, contain occasionally visible gold and small amounts of sulphides.

Ownership: Interprovincial Dredging and Mining Co. Ltd.

History: 1933: Surface work by C.D. Chisholm and M. Bouzan.
1936-44: Surface work and diamond drilling of at least 10 holes, 4 of which totalled 1,840 feet. Work by Wilson Red Lake Gold Mines Ltd.
1946: Geophysical survey and 2,067 feet of diamond drilling. Work by Beatrice Red Lake Gold Mines Ltd.

References: ODM Vol.49, pt.2, p.217-218
Survey of Mines, p.207
ODM G.R.6, p.22-23.

Duchesne Red Lake Prospect

Main Metals: Au.

Location: Twenty-three surveyed claims along east shore of East Bay in southwest portion of Bateman Township about 8 miles northeast of Red Lake; main gold occurrence on claim KRL19526.
Map Reference: ODM Map 2016, Bateman Township - southern part.

Geology: Massive and pillowed phases of basalt have been intruded by quartz-feldspar porphyry, metagabbro and locally a syenodiorite dike. A band of serpentinite outcropping along the common boundary of claim KRL260 and KRL11036, strikes in a northeasterly direction across the western portion of the property. Mapping and drilling indicated sheared and metamorphosed basalt, talc and carbonatized rocks near the serpentinite. Small amounts of sulphide minerals are widely disseminated throughout the rocks. Five of the eight holes drilled on claim KRL19526 intersected gold mineralization over a length of 350 feet.

Ownership: Duchesne Red Lake Mines Ltd. Dickenson Mines Ltd. has a 64.9% interest.

History: About 1946-47: Geological mapping, trenching and 11 diamond drill holes totalling 4,000 feet.

References: ODM G.R.6, p.23, 24
Canadian Mines Handbook 1968-69, p.123.

Forsyth Prospect

Main Metals: Au.

Location: Eleven patented claims in the central portion of Bateman Township east of East Bay and about 8 miles northeast of Red Lake. Some drilling on and near claim KRL18127.
Map Reference: ODM Map 2016, Bateman Township - southern part.

Geology: The area is almost entirely underlain by basalt intruded by a few quartz porphyry dikes. A serpentinite sill strikes in a northeasterly direction across the extreme western portion of the prospect. Drill holes located east of the serpentinite contain small amounts of pyrite, pyrrhotite and chalcopyrite. Specks of visible gold were found in quartz stringers in drill cores.

Ownership: Forsyth Mines Ltd.

History: Pre 1947: Geological mapping.
1947: Drilling totalling 2,000 feet.

References: ODM G.R.6, p.24.

McFinley Prospect

Main Metals: Au, Ag.

Location: On northern part of McFinley Peninsula and on McFinley Island between McFinley Bay and East Bay in the southwest corner of Bateman Township. Shaft on claim KRL246 on McFinley Peninsula.
Map Reference: ODM Map 2016, Bateman Township - southern part.

Geology: Massive and pillowed phases of basalts contain up to 20 feet wide beds of interflow sediments consisting mainly of banded lean iron formation and chert. Intrusions include diorite sills, quartz-feldspar porphyry and narrow lamprophyre dikes. Chlorite-talc-carbonate schist has been intersected in all holes extending below East Bay. The structural trend is northeasterly with constant dips of 60°-70°NW.

Economic Features: On the McFinley Island a mineralized zone in iron formation continues to the depth of drilling and averages 0.22 ounces of gold per ton across an average width of 4.7 feet over a length of 420 feet. On the McFinley Peninsula 12 mineralized zones with very erratic values have been reported, gold is found here in (1) quartz veins with sulphides in basalt near diorite sills; (2) quartz veinlets with sulphides in fractured iron formation; (3) massive sulphides replacing iron formation. Silver assays of several ounces per ton were obtained in latter type of occurrence.

Ownership: McFinley Red Lake Gold Mines Ltd.

History: 1926-42: Stripping and trenching by McCallum Red Lake Mines Ltd. Some drilling was done during winter 1941-42 by Corn Lake Gold Mines which optioned the property.
1944-46: Magnetometer survey, trenching and 10,898 feet drilling on McFinley Island. Drilling on McFinley Peninsula 48,598 feet and from the ice 4,877 feet. Work done by McFinley Red Lake Gold Mines Ltd.
1956-57: Shaft 423 feet deep with levels at 150, 275 and 400 feet. Lateral development on 1st and 3rd levels 779 feet drifting and 579 feet crosscutting. Underground drilling 2,935 feet. Work by McFinley Red Lake Gold Mines Ltd. was financed by Little Long Lac Gold Mines.

References: ODM Vol.49, pt.2, p.154, 155
Canadian Mines Handbook 1942, p.229
ODM G.R.6, p.25-28
Survey of Mines 1968, p.187.

CONNELL TOWNSHIP

Central Patricia Mine (Past Producer)

Main Metals: Au, Ag.

Location: About 25 miles northeast of Lake St. Joseph and 90 miles north of Savant Lake station; shaft on claim Pa78 in Connell Township.
Map Reference: ODM Map 47b, Crow River area.

Geology: Massive and pillowed phases of meta-andesites, and tuffs contain lens-shaped interbeds of iron formation. Intrusions consist of dikes and sill-like bodies of quartz porphyry, and a northwest-trending diabase dike 100 to 200 feet wide, about 1/2 mile east of the mine.
Gold associated with pyrrhotite and arsenopyrite is concentrated in fractures in steeply dipping iron formation on the north limb of an anticline striking northeast. The fractures up to 10 inches wide and 40 feet long dip 55°E and occur usually in groups separated by a few feet of barren host rock. The width of the orebodies mined was 12 feet and varied from 30 to 150 feet in length. The average grade of the ore milled was 0.355 ounces of gold per ton.

History: 1929-30: Trenching. 30 surface drill holes totalling 6,881 feet. Vertical shaft of 527 feet with levels at 125, 250, 375 and 500 feet; lateral development 2,707 feet by Central Patricia Mines Ltd. 1932-51: Surface and underground drilling about 203,000 and 217,000 feet respectively. Vertical shaft deepened to 2,226 feet with level interval of 125 feet to 1,000-foot level then 150 feet down to 2,050 feet. Vertical winze No. 3 from 2,050 to 3,722 feet and vertical winze No. 4 from 3,400 to 4,020 feet; level interval 150 feet in both winzes. Crosscutting 11,266 feet, drifting 50,860 feet. Initial mill capacity 50 tons increased to 400 tons in 1941.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividend dollars
1934-51	621,806*	58,349*	22,920,236*	1,729,248*	4,700,000

* Includes also production figures for No. 2 operation (Springer Vein).

(ODM Statistical Files, Central Patricia Gold Mines Ltd.).

References: ODM Vol.39, pt.2, p.18-25
ODM Vol.40, pt.1, p.69, 70
ODM Vol.47, pt.3, p.36-46
ODM Vol.61, pt.2, p.14
Structural Geology of Canadian Ore Reports, p.368-372.

Central Patricia Mine - No. 2 Operation (Past Producer)

Main Metals: Au.

Location: Nearly 4 miles east of Central Patricia Mine shaft and over 1 mile southwest of No. 1 shaft of Pickle Crow Gold Mines Ltd.
Shaft on claim PA647, Connell Township.
Map Reference: ODM Map 47b, Crow River area.

Geology: Massive and pillowed phases of metabasalts on the southeastern side of the northeast-trending Pickle Crow anticlinorium are intruded by few small irregular shaped bodies of porphyry. The Springer or No. 6 vein is near the axial plane of an anticline in a series of minor chevron folds. Gold occurs in fractures in quartz, pyrite and arsenopyrite. The length of the ore shoots varies from 25 to 150 feet and the average width of the vein is 14 inches. Minimum mining width requirement of 3 feet resulted in dilution; the average grade of ore trucked to the Central Patricia mill was 0.696 ounces of gold per ton.

History: 1929: Surface exploration by Central Patricia Mines Ltd. 1935-40: Shaft to depth of 1,024 feet with seven levels mostly at intervals of 150 feet; drifting 3,741 feet and crosscutting 1,775 feet. Sixteen drill holes underground totalling 1,970 feet by Central Patricia Gold Mines Ltd.

Production:	Years	Gold ounces	Total Value dollars	Ore Milled tons
	1938-40	13,158	477,965	18,886

No record available for the amount of silver recovered. (ODM M.P.4, Table 8, p.51).

References: ODM Vol.39, pt.2, p.33, 34
ODM Vol.47, pt.3, p.46-49
ODM Vol.50, pt.1, p.21, 22
ODM M.P.4, p.64-67.

Pickle Crow Mine (Past Producer)

Main Metals: Au, Ag.

Location: About 30 miles northeast of Lake St. Joseph, and 90 miles north of Savant Lake station, most of 98 claims within Connell Township, a few extending into McCullagh Township. Surface shafts on claims PA747, 2062 and 64.
Map Reference: ODM Map 47b, Crow River area.

Geology: Massive and pillowed phases of metabasalts, and overlying felsic to intermediate metavolcanics contain interbeds of banded iron formation. Porphyry stocks and dikes intrude the metavolcanics, and metagabbro and lamprophyre dikes cut all earlier rocks. Isoclinal folds have a general northeast strike and steep northwesterly dip. Some of the most productive veins are in anticlinal areas associated with metabasalt and iron formation. The vertical extent of the ore shoots is from 4 to 15 times their horizontal length. The average width of the ore occurring in fracture zones is 3 feet. Production, stopped in August 1966, was mainly from 10 veins. Data on the more important veins follows:

Vein	Maximum horizontal length in feet	Vertical extent below surface in feet	Country rock	Shaft area
No. 1 (Howell)	1,390	0-3,200)	metabasalt)	No. 1
No. 5	400	0-3,800)	iron)	
No. 9	200	2,050-3,800)	formation)	
No. 2	1,150	0-2,150	porphyry stock	No. 3

Minor production was from quartz-sulphide deposits within iron formation between 2,450 and 2,900 feet levels in No. 1 shaft area. The average grade of ore milled was 0.45 ounces of gold per ton.

Ownership: Silverfields Mining Corp. Ltd. leased property to Pickle Crow Explorations Ltd. until 2067.

History: 1929-30: Trenching and 10 drill holes by Northern Aerial Minerals Exploration Ltd.
1933: Shaft No. 1 started and sunk to 380 feet with level interval of 125 feet by Northern Aerial Canada Golds Ltd.
1934-66: Work by Pickle Crow Gold Mines Ltd., controlled by Teck Corporation since 1958, includes:

Shaft	Inclination	Claim No.	Collar depth in feet	Vertical depth below surface in feet	No. of developed levels
No. 1	vertical	Pa747	surface	3,042	19
No. 4	vertical	Pa747	2,900	4,038	7
No. 2	vertical	Pa2071	721	1,518	3
No. 3	vertical	Pa2062	surface	3,052	21
Albany*	vertical	Pa64	surface	652	5

* Albany shaft completed by Albany River Mines Ltd. before it was acquired by Albany River Gold Mines Ltd. in July 1938. Lateral development by both companies totals 8,223 feet. Taken over by Pickle Crow group in 1946. Lateral development in Pickle Crow shafts is 134,166 feet. Surface drilling of 181 holes totalling 81,349 feet and 3,400 underground holes totalling 449,000 feet.
Initial mill capacity 125 tons increased to 400 tons in 1938.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividend dollars
1935-66	1,446,214	168,757	52,376,169	3,237,572*	12,375,000

* Includes 9,200 tons from surface dump near Albany shaft milled in 1947.
A small amount of scheelite was produced in 1943.
(ODM Statistical Files, Pickle Crow Gold Mines Ltd.).

References: ODM Vol.47, pt.3, p.52-62
ODM Vol.76, p.52-56
ODM M.P.4, p.1-63, 69-82
Survey of Mines 1969, p.120.

Pickwick Prospect

Main Metals: Au.

Location: North of Crow River below Kukuku rapids on both sides of common boundary between Connell and McCullagh Townships.
Map Reference: ODM Vol.47, pt.3, p.16, Crow River area.

Geology: Keewatin basalts with interbeds of iron formation and tuff have been intruded by porphyry, lamprophyre and gabbro. No commercial gold values reported.

History: 1936-37: About 7,000 feet of surface drilling was done by Pickwick Gold Mines Ltd.
1960: Geophysical surveys by Success Mines Ltd.

References: ODM Vol.47, pt.3, p.5, 63
Mineral Resources Branch, gold, Success Mines.

DENT TOWNSHIP

Hudson-Patricia Mine (Past Producer)

Main Metals: Au, Ag.

Location: Northeast portion of Dent Township, extending northwards into Goodal Township. West of the northern end of Confederation Lake and south of Washagomis Lake. Shafts Nos. 1 and 2 are both on claim KRL5603, No. 2 is 35 feet south of No. 1.
Map Reference: ODM Map 37h, Woman and Narrow Lakes gold area.

Geology: The country rock comprises an alternation of north-striking, near vertical dipping felsic to mafic metavolcanics, pyroclastics and cherty tuff. Porphyry dikes and diorite sills are present in the vicinity. The main quartz vein, reported to occur largely in mafic volcanics and diorite at depth, ranges from a few inches to three feet in width, strikes N65°E and dips 65°NW, and produced 0.17 ounces of gold per ton. Galena, sphalerite and chalcopyrite occur also in the quartz.

History: 1927-33: Surface work including an electrical survey by Swedish American Prospecting Co. Two shafts were sunk; No. 1 to an inclined depth of 100 feet, level at 100 feet, and a total of 312 feet of drifting and 15 feet of crosscutting; No. 2 to a vertical depth of 239 feet, levels at 80 and 211 feet, and a total of 900 feet of crosscutting. Work by Metals Development Co. Ltd.
1934-37: From the 211-foot level a winze inclined 74° was sunk to a vertical depth of 325 feet below the surface. Drifting totalled 1,891 feet and crosscutting 1,084 feet. Diamond drilling of 20 holes totalling 2,400 feet. A mill with a capacity of 50 tons per day was installed. Work by Hudson Patricia Gold Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1936-37	1,857	305	65,166	11,228

(ODM Statistical Files, Hudson-Patricia Gold Mines Ltd.).

References: ODM Vol.37, pt.4, p.45
ODM Vol.42, pt.6, p.45-47
ODM Vol.45, pt.4, p.23-25
ODM Vol.47, pt.1, p.139
ODM M.P.6, p.74.

Jackson-Manion Mine (Past Producer)

Main Metals: Au, Ag.

Location: South shore Rowe Lake, southwest portion of Dent Township. Originally 17 claims, No. 1 shaft on claim KRL3816, No. 2 shaft 2,300 feet to the north.
Map Reference: ODM Map 37h, Woman and Narrow Lakes gold area.

Geology: Keewatin basalts have been intruded by diorites and porphyries. "Rowe" vein, trending south and dipping 85°E, extends as discontinuous quartz lenses over 1/2 mile, average width 2-1/2 feet.

Ownership: The Patino Mining Corp.

History: 1927: Stripping and surface drilling by Timmins, Inc.
1928-29: No. 1 shaft 404 feet, levels at 125, 250 and 375 feet; lateral development 1,251 feet, raises 95 feet; underground drilling 877 feet, surface drilling 4,900 feet by Jackson-Manion Mines Ltd.
1933-40: No. 1 shaft: two winzes total depth 291 feet; lateral development 4,380 feet and raises 638 feet on six levels. No. 2 shaft 391 feet: lateral development 3,705 feet and raises 223 feet on three levels. Surface drilling 7,522 feet, underground drilling over 655 feet by J-M Consolidated Gold Mines Ltd.
1947-48: Work by J-M Consolidated Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1934-40	27,125	18,241	971,683	105,357
1947-48	17	10	592	clean-up
	27,142	18,251	972,275	105,357

(ODM Statistical Files, J-M Consolidated Gold Mines Ltd.).

References: ODM Vol.37, pt.1, p.118-119; pt.4, p.24-33
ODM Vol.47, pt.1, p.142
ODM Vol.48, pt.1, p.130
ODM Vol.50, pt.1, p.58
Financial Post Survey 1969, p.89, 293.

DOME TOWNSHIP

Annco Mine (Producer)

Main Metals: Au, Ag.

Location: Northeast portion of Dome Township south of and adjoining Cochenour Willans mine; claims KRL90, 91, 93, 7741 and 10895.
Map Reference: ODM Map 2074, Dome Township.

Geology: In the eastern portion of the property uniform and variolitic metabasalts are intruded by a northeast-trending serpentinite body and a quartz porphyry dike striking N82°E. The basalts are overlain unconformably by quartz latite, conglomerate, quartzite and lean iron formation which strike N20°E with a variable westerly dip.

Economic Features: The annual company report for 1968 states that developed and available ore above the 2,200-foot level totals about 50,000 tons grading 0.40 ounces of gold per ton. This talcose and faulted ore extends at least 175 feet below the 2,200-foot level but cost of development for this zone alone is considered prohibitive.

Ownership Annco Mines Ltd. operated and financed by Cochenour Willans Gold Mines Ltd. which holds a 55% interest. Martin-McNeely Mines Ltd. holds the balance of the issued shares.

History: 1927-28: Stripping and trenching by Martin-McNeely Mines Ltd.
1935: Six surface holes by Martin-McNeely Mines Ltd.
1963-66: Underground development via 15th, 16th, 18th, 19th, 20th and 22nd levels of Cochenour Willans Mine. Drifting 4,555 feet and cross-cutting 2,062 feet. Underground drill holes totalled 478, with a footage of 84,512. Ore hauled to Cochenour Willans mill. Work by Cochenour Willans Gold Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1965-68	44,152	2,023	1,669,055	120,032

(ODM Statistical Files, Annco Mines Ltd.).

References: ODM Vol.44, pt.6, p.24
ODM Vol.49, pt.2, p.182-184
ODM G.R.45, p.48.

Cochenour Willans Mine (Producer)

Main Metals: Au, Ag.

Location: Northeast portion of Dome Township on the east side of Bruce Channel. Shaft No. 1 on claim KRL322, shaft No. 2 on claim KRL462. Map Reference: ODM Map 2074, Dome Township.

Geology: Westerly-striking metabasalts, consisting of pillowed and uniform phases and one variolitic pillow lava, are overlain unconformably by siliceous quartz latites trending southwest. A composite rock at the southern contact of the variolitic basalt consists of banded chert, black carbonaceous sediment and banded tuffaceous sediment. Talc-chlorite-carbonate schist occurs in the western part of the property. Intrusive rocks are serpentinite, metagabbro and quartz-feldspar dikes. The ore is associated with a folded silicified and carbonatized overthrust fault zone cutting across the lavas. Faults strike west and dip vertically.

Associated minerals are mainly arsenopyrite and pyrite. The average grade of ore milled up to 1967 was 0.548 ounces per ton.

Economic Features: The company annual report for calendar year 1967 states the "Ore potential is being depleted rapidly with future production being supplied by low grade structures".

Ownership: Cochenour Willans Gold Mines Ltd.

History: 1932: Twelve surface holes totalling 3,500 feet by Ventures Ltd. which obtained option from Cochenour Willans Syndicate.
1934-35: Shaft No. 1 sunk to 170 feet; level at 150 feet with 750 feet drifting and 1,150 feet crosscutting by Hollinger Consolidated Gold Mines Ltd. during a one year option.
1936-67: Shaft No. 1 deepened to 2,768 feet with 21 additional levels at intervals varying between 100 and 150 feet. Drifts and crosscuts totalling 109,165 and 67,454 feet respectively. Shaft No. 2, located 1,900 feet northeast of No. 1 shaft sunk to 446 feet with levels at 110, 210, 310 and 410 feet, and 5,943 feet of drifting and 3,386 feet of crosscutting. Shafts connected on 2nd, 3rd and 4th levels. The 1,300-foot level extended into adjacent Wilmar and Consolidated Marcus properties and the 2,050-foot level extends southward into the Annco Mines property. About 275 surface holes totalling 75,500 feet and about 10,675 underground holes totalling 1,557,000 feet. Mill of 150 to 200 tons per day initially, gradually increased to 300 tons by 1963, treating also ore from Annco and Wilmar properties since 1965 and capacity increased to 400 tons in 1966. Work done by Cochenour Willans Gold Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
	1939-68	1,123,099	50,126	40,540,976	2,077,618	6,201,137

(ODM Statistical Files, Cochenour Willans Gold Mines Ltd.).

References: ODM Vol.44, pt.6, p.23-24
ODM Vol.49, pt.2, p.80-96
ODM G.R.45, p.51-56
ODM Vol.77, p.22-26.

Consolidated Marcus Prospect

Main Metals: Au.

Location: Twenty-four claims east of Cochenour Willans Mine and northwest of Campbell Red Lake Mine in the northeastern and northwestern part of Dome and Balmer Townships respectively. Shaft on claim KRL7696.
Map Reference: ODM Map 2074, Dome Township.
ODM Map 1951-3, Township of Balmer.

Geology: Massive and pillowed phases of metabasalts dipping steeply towards the south, contain bands of lean iron formation. A serpentinite body crosses the northwest portion of the property. Other intrusives include metagabbro and several dikes of quartz-feldspar porphyries.

Economic Features: A vein intersected on 150-foot level about 360 feet north of the shaft averaged 0.464 ounces of gold over a width of 4 feet for a length of 70 feet. A drive through entire length of property intersected numerous quartz-carbonate veins containing visible but low grade gold mineralization.

Ownership: Consolidated Marcus Gold Mines Ltd. Cochenour Willans has a controlling interest in this company and has operational control.

History: 1944-47: Drilling 72 holes totalling 12,574 feet. Shaft 183 feet deep with level at 156 feet, drifting 1,430 feet and 950 feet of crosscutting. Underground drilling of 38 holes totalling 6,000 feet by Marcus Gold Mines Ltd.
1950: Drilling by Teck-Hughes which optioned the southerly claims. Drilling in the northern part by Marcus Gold Mines Ltd.
1952-55: Drilling of 17 holes totalling 31,469 feet in the northeastern part by Cochenour Willans Gold Mines Ltd. which obtained an option on the property.
1961-66: About 9,500 feet of drifting on 1,300-foot level of extension from Cochenour Willans Gold Mines. Underground drilling of 80 holes totalling 33,667 feet. Five surface holes totalling 2,005 feet by Cochenour Willans Gold Mines Ltd.

References: ODM G.R.45, p.57, 58
ODM Vol.77, p.26
Survey of Mines 1969, p.163.

Craibbe-Fletcher Prospect

Main Metals: Au.

Location: Adjacent to east boundary of Dome Township and about 1 mile west of the shaft on the Campbell Red Lake property. Group consists of 14 patented claims with drift on claims KRL8140 and 8143.
Map Reference: ODM Map 2074, Dome Township.

Geology: Uniform basalts with two zones of carbonatized flow top breccia and a narrow band of pillow lava, contain two bands of infolded quartz latite with associated beds of cherty iron formation. Intrusives consist of a metagabbro near the southern boundary of the property, and a quartz-feldspar porphyry. The general strike is N70°W with a dip from 70°-75°S.

Economic Features: Erratic gold values were indicated by drilling over a length of about 300 feet in cherty iron formation and in a lens of silicified material within quartz latite 100 feet to the north. Only narrow quartz veins with visible gold were intersected on the 2,050-foot level.

Ownership: Craibbe-Fletcher Gold Mines Ltd. Dickenson Mines and Dome Mines have interests of 27.3% and 16.8% respectively.

History: 1940: Stripping and trenching by Fletcher Group.
1945-49: Magnetometer survey; about fifty drill holes totalling 34,557 feet; work financed and directed by Sylvanite Gold Mines Ltd. and Powell Rouyn Gold Mines Ltd. for Craibbe-Fletcher Gold Mines Ltd.
1956: Six surface holes totalling 4,438 feet drilled down to 500-foot horizon by New Dickenson Mines Ltd. for Craibbe-Fletcher Gold Mines Ltd.
1958-61: Drive extending 1,475 feet into Craibbe-Fletcher from 14th or 2,050-foot level of Campbell Red Lake Mine. Underground drilling 8,220 feet, surface drilling 2,311 feet by Campbell Red Lake Mines Ltd. for Craibbe-Fletcher Gold Mines Ltd.

References: ODM Vol.49, pt.2, p.109
ODM G.R.45, p.58-60
Canadian Mines Handbook 1968, p.106
Survey of Mines 1969, p.68.

Gold Eagle Mine (Past Producer)

Main Metals: Au, Ag.

Location: Central portion of Dome Township, west of Bruce Channel and about 3-1/2 miles north of Red Lake. Shaft on claim KRL10631.
Map Reference: ODM Map 2074, Dome Township.

Geology: Slaty and quartzose greywackes on the west limb of a southwesterly-trending syncline have been intruded by augite diorite, quartz diorite and finally by mafic dikes. Most of the ore occurred above the 500-foot level in shear zones near the north-dipping contact between the two types of diorites and that between quartz diorite and greywacke. Production came from two vein systems known as the Gold Eagle vein and No. 1 shearing which strike southeast to east, and dip 52°SW and 44°S respectively. The main associated minerals are pyrite and sphalerite. The average grade of ore milled was 0.25 ounces of gold per ton.

Ownership: Goldray Mines Ltd.

History: 1933-34: Surface work and 5,000 feet of diamond drilling by Gold Eagle Syndicate and Gold Eagle Gold Mines Ltd.
1934-36: Five surface holes totalling 5,070 feet drilled east and southeast of the mine by Rahill Red Lake Mining Co. Ltd.
1934-41: Vertical shaft to 525 feet with levels at intervals of 125 feet. Vertical winze sunk 542 feet from the 500-foot level with new levels at 600, 700, 850 and 1,000 feet. Total drifting 10,520 feet and crosscutting 3,975 feet. Trenching. Thirty-three surface holes totalling 7,505 feet and 216 underground holes totalling 43,883 feet. Mill capacity of 125 tons per day. Work by Gold Eagle Gold Mines Ltd.
1945-47: Surface diamond drilling by Gold Eagle Gold Mines Ltd.
1958-59: Magnetic survey. Fifteen surface holes totalling 9,706 feet

by Gold Eagle Gold Mines Ltd.
1960-63: Two holes drilled in Bruce Channel totalling 5,205 feet in 1960. Further diamond drilling and geophysical work by Goldray Mines Ltd. during 1962-63.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1937-41	40,204	19,157	1,496,844	180,095

(ODM Statistical Files, Gold Eagle Gold Mines Ltd., Goldray Mines Ltd.).

References: ODM Vol.49, pt.2, p.109-115
ODM Vol.50, pt.1, p.40-42
Canadian Mines Handbook 1963, p.127
ODM G.R.45, p.61-65.

Kaymac Prospect

Main Metals: Au.

Location: Northeastern portion of Dome Township with claims extending into McDonough and Balmer Townships. Trenching and most of the drilling in claims KRL302, 314 and 315 near south end of East Bay.
Map Reference: ODM Map 2074, Dome Township.

Geology: Uniform and pillowed phases of metabasalts, containing local bands of iron formation, have been intruded by hornblendite and serpentinite bodies. Later intrusions include a granodiorite dike in the extreme northeastern part of the property and some quartz-feldspar porphyries. The structural trend is southwest with vertical dips.

Economic Features: A drill hole intersected 7.8 ounces of gold per ton across 5 feet with low values on each side. The granodiorite is reported to contain values of ore grade.

Ownership: Kaymac Gold Mines Ltd. An interest of about 23% is held by McMarmac Red Lake Gold Mines Ltd.

History: 1940-41: Trenching; diamond drilling 1,600 feet by Margaret Red Lake Mines (1940) Ltd.
1944-48, 1951-52, 1957-59: Diamond drilling, stripping and trenching. Magnetic survey. Work financed and directed by McMarmac Red Lake Gold Mines Ltd. which optioned the property from Kaymac Gold Mines Ltd.

References: ODM Vol.36, pt.3, p.68, 69
ODM Vol.49, pt.2, p.181, 182
Canadian Mines Handbook 1946, p.200
ODM G.R.45, p.70, 71
Survey of Mines 1968, p.160, 169.

McCuaig Red Lake Prospect

Main Metals: Au.

Location: North tip of McKenzie Island and small islands to the north and northwest in the northern portion of Dome Township. Showings on claims K1613 (KRL10224) and K1620 (KRL10225).
Map Reference: ODM Map 2074, Dome Township.

Geology: Variolitic pillow lavas and associated uniform metabasalts are overlain by porphyritic rhyolite containing some bands of lean iron formation and minor sedimentary rocks. Quartz stringers and lenses up to 6 inches wide in greywacke and carbonatized lava contain erratically distributed gold.

Ownership: McCuaig Red Lake Gold Mines Ltd.

History: 1934-37: 55 pits and trenches; 27 drill holes totalling about 6,000 feet by McCuaig Red Lake Gold Mines Ltd.
1944-45: 17 drill holes totalling 10,226 feet by McCuaig Red Lake Gold Mines Ltd.

References: ODM G.R.45, p.72-73.

McKenzie Mine (Past Producer)

Main Metals: Au, Ag.

Location: Northeast side of McKenzie Island in central part of Dome Township in the Red Lake area. Surface shafts on claims KRL84 and 87.
Map Reference: ODM Map 2074, Dome Township.

Geology: A complex stock of augite diorite and quartz diorite occupies the contact area between porphyritic quartz latites and overlying interbedded greywacke and argillite on the west limb of a southwesterly-trending syncline. A hornblende pyroxenite cutting the augite diorite ranges in width from 60 to 150 feet and dips 85°NW. Diorite dikes both pre-vein and post-vein in age, are present in mine workings. The orebodies, known as the Main Shear, Hanging-Wall Fractures, North Mine Zone and West Mine Zone, consisted of quartz veins and lenses in north-trending shear zones near the contact between the two types of diorite. The shear zones, usually three to ten feet wide, have a westerly dip of about 40° except for the West Mine Zone which conforms with the dip of the stock at 65°W. Individual quartz veinlets are often one to two feet apart and some quartz lenses are up to 5 feet in width. Associated minerals are mainly pyrite and sphalerite and locally some scheelite. The average grade of the ore milled was 0.28 ounces of gold per ton.

Ownership: The Little Long Lac Gold Mines Ltd.

History: 1931: Diamond drilling 3,500 feet by Coniagas Mines Ltd. under option from McNeely Red Lake Holdings Ltd.
1933-66: Sixty surface holes totalling 18,267 feet; 4,220 underground holes totalling about 651,500 feet. Vertical shaft No. 1 sunk to 456 feet with levels at 150, 250, 350 and 450 feet. No. 2 subshaft inclined at 36° extends from 250-foot level to the 1,250-foot level with additional levels every 100 feet. Vertical exploration shaft is 79 feet deep. Vertical No. 4 shaft has a vertical depth of 420 feet below the 1,250-foot level and levels at 100-foot intervals. No. 5 shaft was raised to surface at an angle of 47-1/2° from the 1,650-foot level and later deepened at the same angle to a vertical depth of 2,480 feet with additional levels at 150-foot intervals down to 2,400 feet. Total lateral development includes drifts 101,701 feet and crosscuts 32,921 feet. Mill capacity 125 tons per day in 1935, increased to 230 tons in 1936 and to 300 tons in 1963.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividend dollars
1935-66	651,544	181,386	23,724,240	2,353,833	3,066,449

(ODM Statistical Files, McKenzie Red Lake Gold Mines Ltd.).
Minor amounts of tungsten were produced in the early 1940's.

References: ODM Vol.44, pt.6, p.11-17
ODM Vol.49, pt.2, p.156-174
ODM Vol.76, p.40, 41
ODM G.R.45, p.74-79
Canadian Mines Handbook 1968, p.200.

McMarmac Mine (Past Producer)

Main Metals: Au, Ag.

Location: Northeast portion of Dome Township and about 1 mile northeast of Cochenour. Shaft No. 1 on claim KRL1022, shaft No. 2 on claim 1023. Map Reference: ODM Map 2074, Dome Township.

Geology: Uniform and minor pillowed phases of metabasalts contain a band of interflow greywacke and few narrow bands of lean iron formation. Intrusions consist of a dike of metagabbro and porphyry dikes. The general strike is northeast with steep dips to the northwest and southeast. Three faults strike northwest and dip southwest. The ore shoots consist of cherty quartz enclosed in carbonate bodies which have been traced for 2,400 feet along strike with widths between 20 and 40 feet. Associated minerals are arsenopyrite, sphalerite and stibnite. The average grade of the ore milled was 0.32 ounces of gold per ton.

Economic Features: Drilling and underground exploration indicates an east-trending zone extending for some 400 feet on claim KRL442, and about 80 feet on claim KRL1021. The thickness and grade vary between 1.2 and 6.1 feet, and 0.34 and 3.40 ounces per ton respectively.

Ownership: Marboy Mines Ltd.

History: 1928-29: Shaft No. 1 sunk to 75 feet with a crosscut of 50 feet on the 65-foot level. Work by Red Mammoth Gold Ltd.
1933: Shaft No. 1 or Margaret shaft deepened to 188 feet with about 300 feet of lateral development on the 175-foot level by Margaret Mines Ltd.
1936-37: Shaft No. 2 sunk to 31 feet. Seventy-seven surface drill holes and trenching by Richmond Development Co. Ltd. which optioned property from Margaret Red Lake Mines Ltd.
1939: Shaft No. 2 deepened to 160 feet and 1,431 feet lateral development on 150-foot level by McKenzie Red Lake Gold Mines Ltd. which optioned property from Margaret Red Lake Mines Ltd.
1940-44: Shaft No. 2 deepened to 777 feet with additional levels at 300, 450, 600 and 750 feet. Drifting 7,148 feet and crosscutting 2,060 feet. Fifty surface holes totalling 12,307 feet and 417 underground holes totalling 27,342 feet. Mill capacity 100 tons per day. Work under management of McKenzie Red Lake Gold Mines Ltd. for McMarmac Red Lake Gold Mines Ltd.
1946-48: Magnetometer survey. Drifting from No. 2 shaft 33 feet. Thirty-one surface holes totalling 11,534 feet and 93 holes underground totalling 8,406 feet by McMarmac Red Lake Gold Mines Ltd.
1948-50: Six surface holes totalling 3,500 feet and 90 underground holes totalling 27,231 feet. A crosscut on 750-foot level extended westward for 2,800 feet by Boymar Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1940-44					
1947-48	46,321	1,539	1,762,760	152,978	82,000

(ODM Statistical Files, McMarmac Red Lake Gold Mines Ltd.).

References: ODM Vol.44, pt.6, p.19-23
ODM Vol.49, pt.2, p.168-174
Canadian Mines Handbook 1946, p.200
ODM Vol.58, pt.2, p.54-55
ODM Vol.60, pt.2, p.8
ODM G.R.45, p.80-85.

Red Lake Gold Shore Mine (Past Producer)

Main Metals: Au, Ag.

Location: Near the southern boundary of Dome Township about 1/2 mile northwest of Red Lake. Shaft on claim KRL820.
Map Reference: ODM Map 2074, Dome Township.

Geology: A locally sheared granite-granodiorite stock has been intruded by mafic dikes of two ages prior to the formation of ore. The older dikes occur along shears striking N35°W, the younger dikes along shears striking N40°E. The mineralized zone which provided most of the ore mined occurs in the immediate vicinity of the junction of two sets of the above shears. It is 50 to 150 feet long and 5 to 30 feet wide. The strike of the pipelike ore shoot varies between N75°E to S78°E, the plunge is about 70°. Main associated minerals are pyrite and chalcopyrite. The average grade of ore milled was 0.25 ounces of gold per ton.

Ownership: The Little Long Lac Gold Mines Ltd.

History: Trenching and 26 surface holes totalling 2,647 feet. Vertical shaft sunk 706 feet. A winze inclined at 77° between the 550-foot level and the 1,000-foot level. Other levels were established at 182, 300, 425, 700, 830 and 910 feet. Drifts total 4,687 feet and crosscuts 1,464 feet. Forty-nine underground holes totalling 6,936 feet. Mill capacity 125 tons per day. Work by Red Lake Gold Shore Mines Ltd.

Production	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1936-38	21,300	3,603	747,577	86,333

(ODM Statistical Files, Red Lake Gold Shore Mines Ltd.).

References: ODM Vol.44, pt.6, p.33-35
ODM Vol.49, pt.2, p.128-133
ODM G.R.45, p.65-68
Canadian Mines Handbook 1967, p.155.

Sanshaw Prospect

Main Metals: Au.

Location: White Horse Island in south-central part of Dome Township and about 1-1/2 miles north of Red Lake. Shaft on KRL11325.
Map Reference: ODM Map 2074, Dome Township.

Geology: The contact between quartz latite and a granodiorite stock strikes about N20°E and dips 78°W at the eastern shore of the island. Mineralization including associated minor sulphides is concentrated in sheared and silicified zones in the granodiorite to the west of and subparallel to this contact.

Economic Features: Canadian Mines Handbook 1969-70, p.315 records an estimate of 200,000 tons averaging 0.2 ounces of gold per ton above 375-foot level.

Ownership: St. Fabiens Copper Mines Ltd.

History: 1937: A shaft was sunk 35 feet and 15 diamond drill holes totalling 3,856 feet were drilled from the surface. Work by Sanshaw Mines Ltd.
1939-41: 17 diamond drill holes totalling 3,484 feet were sunk. Work by McKenzie Red Lake Gold Mines Ltd.
1946-48: Shaft deepened to 437 feet with levels at 225 and 350 feet, and 1,438 feet of drift and 485 feet of crosscutting. Diamond drilling comprised 15 surface holes totalling 5,433 feet and 54 underground holes totalling 5,637 feet. Work by Orlac Red Lake Mines Ltd.
1958-65: Surface and geophysical exploration, and 13,800 feet of diamond drilling. Work by Cable Mines and Oils Ltd.

References: ODM Vol.49, pt.2, p.207-210
ODM Vol.57, pt.2, p.72-73
ODM Vol.58, pt.2, p.61
ODM G.R.45, p.49-51
Mineral Resources Branch, file, Cable (Orlac).

Wilmar Mine (Producer)

Main Metals: Au, Ag.

Location: Central eastern portion of Dome Township and south of Cochenour Willans Mine; surface shaft on claim KRL6687, winze on KRL8583.
Map Reference: ODM Map 2074, Dome Township.

Geology: Folded uniform metabasalt, quartz latite, interflow slate and narrow bands of lean iron formation trending northeast to east, have been intruded by metagabbro bodies. Underground development from the 1300-foot level of Cochenour Willans Mine indicated telluride with a high silver-to-gold ratio as well as chalcopyrite in the so-called agglomerate and carbonate zones. In a third zone gold was traced over a length of 1,000 feet and widths of 12 feet in quartz-filled fractures in a diorite dike.

Economic Features: On the 2,050-foot level some 50,000 tons averaging 0.40 ounces of gold has been indicated. In addition some 20,000 to 30,000 tons grading 0.28 ounces of gold per ton are accessible on the 1,300-foot level. (The Financial Post Corporation Service, Cochenour Willans Gold Mines Ltd., information card February 27, 1969).

Ownership: Wilmar Mines Ltd., which is controlled and operated by Cochenour Willans Gold Mines Ltd.

History: 1928: Trenching by Martin-McNeely Mines Ltd.
1934-36: Trenching, stripping and five surface drill holes. "Rahill" Shaft sunk to 35 feet by Rahill Red Lake Mining Co. Ltd.
1944-46: Magnetic survey and 35,391 feet of surface drilling by Martin-McNeely Mines Ltd.
1960-67: Underground development via a crosscut on the 12th (1,300-foot) level of Cochenour Willans Mine. Winze sunk to a depth of 816 feet below the 12th level with stations established at 150-foot intervals.

Drifts totalling 7,240 feet and crosscuts 5,767 feet. Twenty-two surface holes totalling 11,822 feet, 480 underground holes totalling 111,022 feet, and milling by Cochenour Willans Gold Mines Ltd. for Wilmar Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1967	2,150	4,091	88,249	8,626

(ODM Statistical Files, Wilmar Mines Ltd.).

References: ODM Vol.44, pt.6, p.25
ODM Vol.49, pt.2, p.196, 197, 182-184
Canadian Mines Handbook 1945, p.205
ODM G.R.45, p.86-88.

EARNGEY TOWNSHIP

Uchi Mine (Grasett) (Past Producer)

Main Metals: Au, Ag.

Location: Earngey Township, east of Lost Bay of Confederation Lake and northwest of Uchi Lake. Shaft No. 5 is situated on KRL4506 approximately 10,000 feet north of No. 1 Shaft, Uchi Mine (Uchi). Map Reference: ODM Map 47a, Uchi Lake area.

Geology: See Uchi Mine (Uchi).

Economic Features: The only important mineral vein recorded is the Hill-Tivy-Sloan, which on this property runs almost north-south along the boundary between rhyolite and mafic metavolcanics being narrowest in the north and increasing to a maximum width of 4 feet. Little native gold is visible.

Ownership: The Little Long Lac Gold Mines Ltd.

History: 1927: Vertical shaft sunk 260 feet, levels at 150 and 250 feet, drifting totalled 690 feet and crosscutting 107 feet. 7 diamond drill holes were made from the surface totalling 3,653 feet. Work by Consolidated Mining and Smelting Co. of Canada Ltd.
1940-42: The original shaft was continued to 731 feet, additional levels were established at 400, 500 and 700 feet, drifting totalled 3,650 feet and crosscutting 400 feet. Diamond drilling was also done. Work by Uchi Gold Mines Ltd.

Production: Included in Statistics for Uchi Gold Mines Ltd. See Uchi Mine (Uchi).

References: ODM Vol.38, pt.1, p.93-94
ODM Vol.47, pt.3, p.81
ODM Vol.50, pt.1, p.137-138
ODM Vol.53, pt.1, p.162-163
ODM Vol.57, pt.2, p.36
ODM M.P.6, p.72, 73.

Uchi Mine (Hanalda) (Past Producer)

Main Metals: Au, Ag.

Location: Earngey Township, southeast of Lost Bay of Confederation Lake and northwest of Uchi Lake. No. 3 shaft situated on KRL5020 approximately 3,500 feet north of shaft No. 1 Uchi Mine (Uchi). Map Reference: ODM Map 47c, Uchi Lake area.

Geology: See Uchi Mine (Uchi).

Economic Features: No. 7 zone, on which No. 3 shaft is situated, consists of auriferous silicified and carbonatized, altered diorite associated with pyrite and quartz stringers. Shallow drilling indicated a 240-foot section averaging approximately 0.32 ounces of gold per ton over a width of 5 feet and another section 150 feet long averaging approximately 0.33 ounces of gold per ton over a width of 3 feet.

Ownership: The Little Long Lac Gold Mines Ltd.

History: 1927: The vein on claims Nos. KRL5018 and 5021 was examined by Noah Timmins, Incorporated.
1937-38: Surface development including diamond drilling by Kenelda Gold Mines Ltd. and Newmont Mining Corporation.
1939-40: A vertical shaft was sunk 322 feet, levels at 150 and 300 feet, drifting totalled 247 feet and crosscutting 326 feet. Diamond drilling of 9 holes underground totalling 944 feet. Work by Hanalda Gold Mines Ltd.
1940-41: Lateral work totalling about 1,400 feet of drifting and 500 feet of crosscutting. Work by Uchi Gold Mines Ltd.

Production: Included in statistics for Uchi Gold Mines Ltd. See Uchi Mine (Uchi).

References: ODM Vol.38, pt.1, p.93-94
ODM Vol.47, pt.3, p.80-82
ODM Vol.49, pt.1, p.121
ODM Vol.50, pt.1, p.137-138
ODM Vol.53, pt.1, p.162-163
ODM Vol.57, pt.2, p.36
ODM M.P.6, p.72-73.

Uchi Mine (Jalda) (Past Producer)

Main Metals: Au, Ag.

Location: Earngey Township, east of Lost Bay of Confederation Lake and northwest of Uchi Lake. Shaft No. 4 is situated on claim KRL12486 north of shafts Nos. 1, 2 and 3.
Map Reference: ODM Map 47a, Uchi Lake area.

Geology: See Uchi Mine (Uchi).

Economic Features: The important veins are the No. 14 on KRL12486 and the Hill-Tivy-Sloan to the northwest. No. 14 strikes northeast, lies in mafic metavolcanics and drilling indicated 320 feet averaging approximately 0.23 ounces of gold per ton over 4.3 feet. The Hill-Tivy-Sloan vein dips 70°-75°W, generally occupies a single fissure along a contact between rhyolite and mafic metavolcanics, is from 20 to 30 inches wide and contains erratic gold mineralization; the highest assay result reported was 0.57 ounces of gold per ton over 1.8 feet.

Ownership: The Little Long Lac Gold Mines Ltd.

History: 1927: Surface work by Noah Timmins Inc. and by Consolidated Mining and Smelting Co. of Canada.
1937-38: Some surface work which included stripping and diamond drilling. Work done by Woco Gold Development Ltd. and Conwo Gold Mines on their respective holdings.
1939: Vertical shaft sunk 320 feet, levels at 150 and 300 feet, drifting totalled 1,114 feet and crosscutting 173 feet. Work by Jalda Gold Mines Ltd.
1940-43: Lateral work, totalling approximately 2,000 feet of drifting and 800 feet of crosscutting, and diamond drilling. Work by Uchi Gold Mines Ltd.

Production: Included in statistics for Uchi Gold Mines Ltd. See Uchi Mine (Uchi).

References: ODM Vol.38, pt.1, p.93-94
ODM Vol.47, pt.3, p.77-80
ODM Vol.49, pt.1, p.133
ODM Vol.50, pt.1, p.137-138
ODM Vol.53, pt.1, p.162-163
ODM Vol.57, pt.2, p.36
ODM M.P.6, p.72-73.

Uchi Mine (Uchi) (Past Producer)

Main Metals: Au, Ag.

Location: Earngey Township on northwest shore of Uchi Lake, southeast of Lost Bay of Confederation Lake. Shaft No. 1 on claim KRL5038,

shaft No. 2 on claim KRL5041.
Map Reference: ODM Map 47c, Uchi Lake area.

Geology: Alternating bands of intermediate and mafic lava flows, felsitic pyroclastics locally associated with cherty tuff and diorites strike north with almost vertical dip. Numerous white quartz veins and stringers occupy fracture zones which are usually near the contact between the different rock types. Gold may occur in the quartz or the adjacent country rock. The average grade of ore milled, including ore extracted from Hanalda, Jalda and Grasett sections of Uchi Mine, was 0.15 ounces of gold per ton.

Economic Features: Ore was present in metavolcanics just east of the contact with diorite. Ore shoots were reported to average 12 feet in width. Prior to production the tonnage was estimated at 650,000 tons averaging 0.23 to 0.26 ounces of gold per ton.

Ownership: The Little Long Lac Gold Mines Ltd.

History: 1927: Exploratory work which included 4 diamond drill holes totalling 1,046 feet. Work by Huronian Belt Co. Ltd.
1927-28: No. 1 shaft sunk 110 feet, level at 100 feet, and crosscutting totalling 60 feet. Work by Picard Gold Mines Ltd.
1928-29: Lateral work consisting of 100 feet of crosscutting and 404 feet of drifting. 6 surface diamond drill holes totalling 2,987 feet. Work by Consolidated Mining and Smelting Co. of Canada.
1936: Exploratory work which included 17 surface diamond drill holes totalling 4,800 feet. Work by a consortium of J. Hammell, Val D'Or Mineral Holdings Ltd. and Harker Gold Mines Ltd.
1937-43: No. 1 shaft continued to a vertical depth of 623 feet, with new levels at 300, 450 and 600 feet. Lateral work consisted of 2,433 feet of drifting and 291 feet of crosscutting. Diamond drilling consisted of 18 surface holes totalling 6,093 feet and 122 underground holes totalling 6,552 feet. In 1938 sinking of No. 2 shaft located 800 feet south of No. 1 shaft was commenced and eventually reached a vertical depth of 1,176 feet, levels at 100, 300, 450, 600, 800 and 1,100 feet with connections to No. 1 shaft on the first four levels. Drifting totalled 10,000 feet and crosscutting 4,000 feet. Diamond drilling, including that associated with the other sections of Uchi Mine between 1940-43, consisted of 49 surface holes totalling 10,907 feet and 316 underground holes totalling 50,297 feet. Surface work also included 3,560 linear feet of trenching. In 1939 a 500-ton mill was installed which in 1941 was increased to 765 tons per day. Work by Uchi Gold Mines Ltd.

Production: (Including Hanalda, Jalda and Grasett sections)

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1939-43	114,467	14,345	4,391,733	757,074

(ODM Statistical Files, Uchi Gold Mines Ltd.).

References: ODM Vol.38, pt.1, p.94-95
ODM Vol.47, pt.1, p.221; pt.3, p.74-77
ODM Vol.48, pt.1, p.210
ODM Vol.50, pt.1, p.137-138
ODM Vol.53, pt.1, p.162-163
ODM Vol.57, pt.2, p.36
ODM M.P.6, p.72-73.

Bobjo Prospect

Main Metals: Au, Ag.

Location: Northwest part of Earngey Township, on the peninsula protruding into west part of Lost Bay of Confederation Lake. Shaft on KRL6631. Map Reference: ODM Map 48g, Uchi-Slate Lakes area.

Geology: Spherulitic metavolcanics have been intruded successively by a north-trending, fractured quartz-feldspar porphyry dike and a westerly-trending lamprophyric dike. Auriferous quartz stringers in volcanic rocks occupy a fracture system developed near a local deviation in the general direction of the porphyry dike. The gold appears to be native and original assays from surface exposures were encouraging, but high grade ore was not located at depth.

Ownership: R.J. Jowsey Mining Co. Ltd.

History: 1927: Exploratory work by Coniagas Mines Ltd.
1928-39: Shaft sunk to 270 feet, with levels at 125 and 250 feet. Lateral work totalled 1,600 feet, and surface diamond drilling 7,000 feet in at least 34 holes. Small test mill erected. Work by Bobjo Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1929	362	29	11,510	not recorded

(ODM Statistical Files, Bobjo Mines Ltd.).

References: ODM Vol.48, pt.1, p.85; pt.8, p.40-41
Canadian Mines Handbook 1969-70, p.189.

FAIRLIE TOWNSHIP

Alcourt Prospect

Main Metals: Au.

Location: 16 claims in the centre of Fairlie Township to north of Red Lake,

and south of Para Lake.
Map Reference: ODM Map 49a, Red Lake area.

Geology: Folded Precambrian intermediate and mafic volcanics overlain by northeast-striking conglomerate, greywacke, and slate have been intruded by several porphyry dikes and a diorite body. Occasionally auriferous quartz veins occur within the diorite. Surface samples of No. 1 vein trending northwest, indicated a length of 125 feet containing 0.266 ounces of gold per ton over a width of 3 feet. Results of detailed drilling to evaluate the 100-foot horizon were called encouraging. The deepest drill hole was about 400 feet and intersected 0.02 ounces of gold over 1.2 feet.

Ownership: Alcourt Mines Ltd.

History: 1936-37: Some surface work and diamond drilling by Monetary Metals Ltd.
1960-61: Trenching and more than 6,000 feet diamond drilling by Alcourt Mines Ltd. under option from C. Campbell.
1963-65: Magnetometer survey and more than 3,000 feet of diamond drilling by Alcourt Mines Ltd.

References: ODM Vol.49, pt.2, p.187, 212-213
Mineral Resources Branch, file, Hanson-Campbell (Alcourt) Group.
Canadian Mines Handbook 1964, p.21.

Humlin Prospect

Main Metals: Au.

Location: Group of 17 claims in Fairlie Township extending into Baird Township on the southern shore of Red Lake about 7 miles west of Red Lake.
Map Reference: ODM Map 2072, Baird Township - eastern part.

Geology: Folded Precambrian uniform and pillowed metabasalts and overlying porphyritic quartz latite have been intruded by metagabbro, trending sub-parallel to the northwesterly strike of the country rocks. Auriferous veins, sometimes containing arsenopyrite, occur in shear zones in basalts and latite breccia.

Economic Features: Financial Post Survey of Mines 1947 reported good showings from exploration work, 1 hole returning 20 inches averaging $170.50 and 2-1/2 feet averaging $11.20. Northern Miner 1945, p.797 (Geological Report 39, p.23) reported trenching by Howey to have indicated a shoot 150 feet long, 12 feet wide, averaging $4.50 (0.13 ounces of gold per ton). Trenching and drilling near the southern boundary indicated averages of $59.80 (1.70 ounces of gold per ton) across 3 feet and $4.30 (0.12 ounces of gold per ton) over an additional 3 feet on the foot wall.

Ownership: Humlin Red Lake Mines Ltd.

History: 1941: Drilling in the vicinity of KRL18413 which had been previously explored by trenching. Howey Gold Mines Ltd.
1945-46: 18,000 feet of diamond drilling in the vicinity of a vein discovered by J. Humlin probably on KRL18424, and in the area of KRL18413. Humlin Red Lake Mines Ltd.

References: ODM Geological Report 39, p.23.
Canadian Mines Handbook 1945, p.115
Financial Post, Survey of Mines 1947, p.211.

HEYSON TOWNSHIP

Buffalo Red Lake Prospect

Main Metals: Au.

Location: North-central portion of Heyson Township, south and southwest of Red Lake. Shaft on claim K1429.
Map Reference: ODM Map 2125, Heyson Township - northern part.

Geology: On the south flank of a granite stock, a northeast-trending fold structure is composed of bands of mafic and felsic metavolcanics intruded by metagabbro. Gold and pyrite mineralization is related to steeply dipping quartz-tourmaline veins in porphyritic quartz latite. The strike of the veins is about N60°W, the width up to 6 inches and the length up to 100 feet. Few quartz stringers in granite were also reported to carry gold.

Economic Features: The Financial Post Survey of Mines, 1947, p.197, records that the indicated reserves are estimated at 132,000 tons averaging 0.22 ounces of gold over an average width of 16 feet. Drilling proved values to a depth of 430 feet.

Ownership: Buffalo Red Lake Mines Ltd.

History: 1926: Trenching, pitting and 590 feet of drilling by Dome Mines Ltd. under option from Red Lake Prospectors Syndicate.
1928-31: At least 29,000 feet of surface drilling.
1945-48: Vertical shaft sunk to 200 feet with 380 feet of drifting and 257 feet of crosscutting. Twenty-two underground holes totalling 816 feet. Work by Buffalo Red Lake Mines Ltd.

References: ODM Vol.36, pt.1, p.105
ODM Vol.49, pt.2, p.79
ODM Vol.58, pt.2, p.58
ODM G.R.56, p.37, 38.

Derlak Red Lake Prospect

Main Metals: Au.

Location: Central western portion of Heyson Township. Main development on claim K1464 (KRL12751).
Map Reference: ODM Map 2125, Heyson Township - northern part.

Geology: Folded and northeast-trending bands of metabasalt, latite and tuff have been intruded by metagabbro dikes. Shear zones in metavolcanics are mineralized over a maximum width of 40 feet and contain up to 0.03 ounces of gold per ton together with some pyrite, pyrrhotite and chalcopyrite.

Ownership: Derlak Red Lake Gold Mines Ltd.

History: 1936-37: Trenching and magnetometer surveys. Nine drill holes totalling about 1,700 feet by Derlak Red Lake Gold Mines Ltd.
1943: Geological survey and eight drill holes totalling 5,109 feet by Central Patricia Gold Mines Ltd.
1967: Diamond drilling by Madsen Red Lake Gold Mines Ltd.

References: ODM Vol.49, pt.2, p.101, 102
ODM G.R.56, p.38, 39
Canadian Mines Handbook 1969-70, p.124.

Hasaga Mine (Past Producer)

Main Metals: Au, Ag.

Location: Just east of Red Lake and west and along strike of Howey Mine near the northern boundary of Heyson Township. Main shafts on claims K1373 and 1374.
Map Reference: ODM Map 2125, Heyson Township - northern part.

Geology: The mine area is predominantly underlain by rocks of the welded tuff unit including porphyritic latite, latite breccia, fine-grained latite as well as quartz porphyry of the mineralized zone. Granitic rocks occur 1,000 feet northwest of No. 1 shaft. Mafic dikes are fairly abundant in, and conform with, the strike and dip of the quartz latite of N65°E and 80°-85°S respectively. Quartz veins and lenses occur in near vertical fracture zones in particular parts of the quartz latite. Associated minerals are mainly pyrite and sphalerite. The so-called "A" ore block was about 1,000 feet long and extended down to the 1,450-foot level. The "B" ore block to the west was 700 feet long and extended from above the 1,600-foot level to the 2,350-foot level. The average grade of the ore milled was 0.14 ounces of gold per ton.

Economic Features: The "C" ore block below the 1,800-foot level has been reported to contain about 200,000 tons averaging 0.19 ounces of gold per ton but was not considered ore due to its isolation from existing workings (ODM G.R.56, p.42).

Ownership: The Little Long Lac Gold Mines Ltd.

History: 1925-36: Trenching and drilling by McIntyre-Porcupine Mines Ltd. 1937-38: Trenching totalling 860 feet, surface drilling 26,442 feet, underground drilling 3,355 feet. Vertical shaft No. 1 sunk to 535 feet with levels every 125 feet. No. 2 shaft on claim K1380 about 2,500 feet southwest of No. 1 shaft sunk to 233 feet with level at 200 feet. Total drifting 1990 feet and crosscutting 1481 feet by J.E. Hammell. 1938-52: Forty-seven surface holes totalling 18,711 feet and 1,459 underground holes totalling 143,553 feet. No. 1 shaft deepened to 1,075 feet and No. 3 vertical shaft, 250 feet to the northwest, sunk to 2,450 feet. Fourteen additional levels at irregular intervals. Drifting 20,242 feet, crosscutting 11,699 feet. Mill capacity at Red Lake Shore Mine increased from 125 tons per day in 1938 to 400 tons in 1949. Work by Hasaga Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1938-52	219,320	92,823	8,246,398	1,515,282

(ODM Statistical Files, Hasaga Gold Mines Ltd.).

References: ODM Vol.49, pt.2, p.123-128
ODM Vol.62, pt.2, p.26-28
Canadian Mines Handbook 1967, p.155
ODM G.R.56, p.39-42.

Howey Mine (Past Producer)

Main Metals: Au, Ag.

Location: Just east of Red Lake and south of the northern boundary of Heyson Township. The property extends into Dome Township to the north. Shaft is on claim K1365 in Heyson Township.
Map Reference: ODM Map 2125, Heyson Township - northern part.

Geology: Porphyritic latite, latite breccia and fine-grained latite belonging to the welded tuff unit occur in the vicinity of the mineralized zone which strikes N65°E and dips 80°-85°SE. The horse of country rock containing the mineralization is bounded by shears that diverge slightly with depth. The width of the zone increases gradually from 40 feet at surface to 80 to 120 feet on the 1000-foot level where the zone has been traced for 4,500 feet on the Howey property. Widths of up to 400 feet have been reported on the 2,000-foot level. Individual veins average not more than 4 inches in width. The orebody extended 1,000 feet at surface and to a depth of 1,250 feet. Principal associated minerals are pyrite and sphalerite. The average grade of the ore milled was 0.09 ounces of gold per ton.

Ownership: Teck Corporation Ltd.

History: 1925-26: Eighteen surface holes totalling 7,335 feet by Dome Mines Ltd.
1927-41: Surface drilling 11,600 feet, underground drilling about 40,000 feet. Vertical shaft 1,506 feet deep with vertical winze about 300 feet southeast of the shaft sunk from the 1,000- and 2,000-foot levels. Levels at 125-foot intervals down to 1,000 feet, then eight levels at irregular intervals down to a depth of 2,000 feet. Drifts 27,750 feet and crosscuts 11,400 feet. Original mill capacity 500 tons per day which was increased to 1,250 tons per day by 1933. Work done by Howey Gold Mines Ltd.
1945-46: Some diamond drilling by Howey Gold Mines Ltd.
1961: Diamond drilling following economic study, geological mapping and geophysical work by Howey Consolidated Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1930-41	421,324	144,253	13,246,506	4,630,779	1,950,000
1942-57	268	61	9,591	clean-up	850,000*

(ODM Statistical Files, Howey Gold Mines Ltd. and Consolidated Howey Gold Mines Ltd.)

* Includes $500,000 return of capital, balance represents investment income.

References: ODM Vol.44, pt.6, p.26-32
ODM Vol.49, pt.2, p.138-146
ODM G.R.45, p.69, 70
ODM G.R.56, p.47-50.

INDIAN RESERVE No. 64

Zulapa Prospect

Main Metals: Au.

Location: Thirty-three claims on north shore of Reserve Lake on Indian Reserve No. 64. NTS 42/M/12/W, Lat. 51°30', Long. 87°30'.
Map Reference: ODM Map 51b, Fort Hope area.

Geology: Highly sheared quartz-feldspar porphyry contains a series of gold-bearing quartz veins. The zone is 300 feet in length and about 50 to 70 feet in width.

Economic Features: Canadian Mines Handbook 1969-70, p.375 records that drilling indicated 170,000 tons grading approximately 0.28 ounces of gold per ton to a depth of 300 feet with additional tonnage to 700 feet.

Ownership: Zulapa Mining Corporation Ltd.

History: 1960: Twenty-nine diamond drill holes by Little Long Lac Gold Mines Ltd.
1963: Fifty-one holes totalling 10,075 feet by Zulapa Mining Corp. Ltd.

References: Mineral Resources Branch, file, Reserve Lake.

McCULLAGH TOWNSHIP

Crowshore Prospect

Main Metals: Au.

Location: Northwest corner of McCullagh Township, to the northeast of Pickle Crow Mine property. The shaft is on claim PA2161.
Map Reference: ODM Map 47b, Crow River area.

Geology: Country rock comprises northeast-trending mafic metavolcanics and zones of iron formation dipping fairly steeply to the northwest. Quartz and sulphides reported to contain gold values, occur in and near the iron formations.

Ownership: Crowbank Mines Ltd.

History: 1937-42: Surface development including dip needle survey and 15,000 feet of diamond drilling. Work by Crowshore Gold Mines Ltd.
1944-47: A vertical shaft was sunk to 557 feet with stations at 227, 377 and 527 feet. Lateral work consisted of 300 feet of drifting and 1,400 feet of crosscutting. Diamond drilling comprised 13 surface holes totalling 5,972 feet and 15 underground holes totalling 5,387 feet. Work by Crowshore Patricia Gold Mines Ltd.

References: ODM Vol.47, pt.3, p.50-51
Survey of Mines 1941-42, p.139
ODM Vol.56, pt.2, p.26-27
Canadian Mines Handbook 1969-70, p.116.

McDONOUGH AND BATEMAN TOWNSHIPS

Inore Prospect

Main Metals: Au.

Location: 19 claims on west side of East Bay, Red Lake in southwest corner of Bateman and southeast corner of McDonouth Townships. Holding adjoins Abino and McFinley properties, with the drilling on

Bateman Township claims KRL2755, KRL2756.
Map Reference: ODM Map 2016, Bateman Township - southern part.

Geology: Pillowed and uniform phases of Keewatin basalts have been intruded by gabbro and quartz-feldspar porphyries. Stringers and zones of mineralization, a few inches to 10 feet wide, have an appreciable gold content usually associated with sulphides including arsenopyrite.

Ownership: Inore Gold Mines Ltd. Kam-Kotia Mines Ltd. has a 34.5% interest.

History: 1928: Stripping and trenching by Bay Mines of Red Lake Ltd.
1937-38: 800 feet assessment drilling by Bay Mines of Red Lake Ltd.
1945: 11 diamond drill holes totalling 6,732 feet by Inore Gold Mines Ltd.

References: OBM Vol.49, pt.2, p.103
OBM G.R.6, p.24
Canadian Mines Handbook 1968-69, p.170.

McNAUGHTON TOWNSHIP

Sol D'Or Mine (Past Producer)

Main Metals: Au, Ag.

Location: West of Grace Lake in the northwest corner of McNaughton Township, the northeast corner of Honeywell Township and in the block immediately north of these two townships. Shaft on KRL10790.
Map Reference: ODM Map 45c, Birch-Springpole Lakes area.

Geology: Interbanded highly faulted and folded intermediate to mafic metavolcanics, felsic tuffs and metasediments are locally intruded by diorite. In general the rock units strike northeast and dip steeply to the northwest. North-dipping veins, up to 1,000 feet long and 2 to 3 feet wide, occur mainly in felsic pyroclastics near the contact with lavas and diorite. Traces of chalcopyrite, pyrite, arsenopyrite and free gold are present. The ore produced from an open cut averaged 0.56 ounces of gold per ton.

History: 1927-30: Surface exploration and possible sinking of a shaft to 34 feet vertical depth. Work by Rainbow Lake Gold Mines Ltd. (formerly Rainbow Gold Milling Syndicate).
1932-34: An open cut 250 feet long and 40 feet deep was made and a 3-ton mill was installed. Work by T.W. Bathurst.
1934-38: Shaft sunk to a depth of 164 feet with a level at 150 feet on which 1,000 feet of lateral work was done. Diamond drilling from the surface totalled at least 3,000 feet from 10 holes. A 5-ton mill was installed. Work by Sol D'Or Gold Mines Ltd.

Production	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1933-36	258	33	8,758	458

(ODM Statistical Files, Sol D'Or Gold Mines Ltd.).

References: ODM Vol.42, pt.6, p.42-45
ODM Vol.45, pt.1, p.158; pt.4, p.18
ODM M.P.6, p.75
Canadian Mines Register, p.362.

TODD TOWNSHIP

Gold Frontier Prospect

Main Metals: Au.

Location: Northwest part of Todd Township, east of Pipestone Bay of Red Lake. No. 1 shaft on KRL10395, No. 2 shaft on KRL11064.
Map Reference: ODM Map 49a, Red Lake area.

Geology: Mafic to intermediate metavolcanics are intruded successively by quartz porphyry and younger dikes trending predominantly east. Auriferous quartz veins, sparingly mineralized with sulphides, occur in shear zones in volcanics and quartz porphyry.

Economic Features: No. 1 vein, which strikes S65°E and dips 85°S. Main mineralization extends erratically from surface to 225-foot level over a length of up to 800 feet. The grade ranges between 0.2 and 0.6 ounces of gold per ton over about a 4-foot width. At the North vein, about 850 feet north of and parallel to No. 1 vein, up to 140 feet long shoots average from 0.2 to 0.5 ounces of gold per ton across a width of 4 feet.

Ownership: Consolidated Red Poplar Minerals Ltd.

History: 1934-36: Surface work by Frontier Red Lake Gold Mines Ltd.
1936: No. 1 shaft sunk to 244 feet with levels at 125 and 225 feet. Drifting totalled 144 feet and crosscutting 61 feet. Diamond drilling also undertaken. Work by Bagamac Rouyn Mines Ltd. and Bunker Hill Extension Mines Ltd.
1940: No. 1 shaft deepened to 495 feet with additional levels at 350 and 475 feet; drifting 2,619 feet and crosscutting 57 feet. Vertical shaft No. 2 sunk to 125 feet with a level at 100 feet, drifting 55 feet and crosscutting 12 feet. Twenty-one surface holes and 138 underground holes totalling 1,438 feet and 5,073 feet respectively. Work by Gold Frontier Mines Ltd.
1944-47: Surface work and diamond drilling. Shaft No. 1 deepened to 780 feet with additional levels at 625 and 750 feet and 80 feet of crosscutting. Work by Bayview Red Lake Gold Mines Ltd.

References: ODM Vol.49, pt.2, p.115-120
ODM Vol.50, pt.1, p.42
ODM Vol.51, pt.1, p.104
ODM Vol.52, pt.1, p.105
ODM Vol.56, pt.2, p.9
Canadian Mines Handbook 1969-70, p.105.

Lake Rowan Prospect

Main Metals: Au.

Location: Up to 2 miles northwest, north and northeast of north end of Golden Arm of Red Lake in central part of Todd Township. Shaft on claim KRL6181.
Map Reference: ODM Map 49a, Red Lake area.

Geology: Keewatin andesites and basalts are intruded by east-west-trending quartz and feldspar diorite porphyry dikes. An interflow bed of iron formation occurs within the lavas. Outcrops of Timiskaming paragneiss were found in the northeast part. Quartz veins containing sulphides and gold occur in fracture zones close to the contact between the lavas and quartz porphyry. Assays of samples taken over a total length of 975 feet on surface and 3 levels averaged 0.5 ounces of gold per ton over a width of 1-3/4 feet.

Ownership: Rowan Consolidated Mines Ltd.

History: 1934-39: Surface trenching, vertical shaft 433 feet; lateral development 2,365 feet on 3 levels including an adit on 100-foot level; raises 75 feet; 19 surface holes totalling 6,770 feet and 27 underground holes totalling 1,958 feet by Lake Rowan Gold Mines Ltd.
1946-47: Drilling by Lake Rowan (1945) Mines Ltd.
1953: On 400-foot level, 2,221 feet lateral development and 104 feet of raises; 38 underground holes totalling 6,053 feet by Rowan Consolidated Mines Ltd.

References: OBM Vol.47, pt.1, p.148
OBM Vol.48, pt.1, p.136
OBM Vol.49, pt.1, p.145; pt.2, p.149-152
Canadian Mines Handbook 1946, p.172.

Red Crest Mine (Past Producer)

Main Metals: Au, Ag.

Location: Near north end of Golden Arm in east-central part of Todd Township. Shaft on KRL10235.
Map Reference: ODM Map 49a, Red Lake area.

Geology: Keewatin andesites and basalts have been intruded by a small quartz diorite stock and diorite dikes. Quartz veins occur in a shear zone along south side of the quartz diorite stock, and strike N45°W with dip of 63°-70° to the northeast.

Economic Features: Erratic gold distribution was found over a length of 500 feet and a width of 3 to 10 feet. Reserve estimates range from 21,182 tons averaging 0.32 ounces to 47,439 tons at 0.27 ounces of gold per ton. Reference ODM Vol.49, pt.2, p.201, 202.

Ownership: Red Summit Mines Ltd., controlled by Northgate Exploration Ltd.

History: 1930: Trenching by Rowan Discovery Syndicate.
1931: 11 surface holes totalling 2,004 feet by Coniagas Mines Ltd.
1934-38: 8 surface holes totalling 2,128 feet; shaft 600 feet with 4 levels; lateral development 3,439 feet and underground drilling 5,500 feet by Red Crest Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1935-36	277	65	9,721	591

(ODM Vol.45, pt.1, p.11; Vol.46, pt.1, p.15).

References: ODM Vol.48, pt.1, p.188
ODM Vol.49, pt.2, p.198-202
Financial Post Survey 1956, p.210
Canadian Mines Handbook 1968-69, p.288.

51°15' - 92°15'

Jason Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/N/08/W, Lat. 51°15', Long. 92°15', on north shore Casummit Lake 100 miles north of Sioux Lookout. Shafts on claims KRL9681 and 9684.
Map Reference: ODM Map 46f, Casummit Lake area.

Geology: A synclinal structure of interbedded and generally east-trending greywacke, quartzite, slate, iron formation and pyroclastics is surrounded by Keewatin intermediate to mafic lavas. The rocks have been intruded by occasional diorite and granite dikes. Most of the veins occur in north-south fractures dipping 30°-85° to the west. Quartz is associated with variable amounts of arsenopyrite, pyrrhotite, chalcopyrite, pyrite, sphalerite, galena and native gold. Underground workings opened up initially veins Nos. 2 and 3, the width of which ranged from 2 to 7 feet and 1-1/2 to 4 feet respectively. In 1938 development work was also started on vein No. 1. The average grade of the ore mined was 0.37 ounces of gold per ton.

Ownership: New Jason Mines Ltd. holds 44 claims.

History: 1930-31: 2,000 feet diamond drilling; vertical shaft No. 2 to 85 feet with level at 75 feet; 140 feet lateral development by Casey Mountain Operating Syndicate.

1933-34: No. 2 shaft deepened to 320 feet with new levels at 200 and 300 feet; 1,810 feet lateral development; 50-ton mill installed by Casey Summit Gold Mines Ltd.

1935-38: Winze inclined 40° sunk 439 feet along the incline from 300-foot level in No. 2 shaft; new levels established at 400, 500 and 600 feet; lateral development 5,187 feet. Surface drilling 3,025 feet and underground drilling 2,739 feet. A 125-ton mill erected by Argosy Gold Mines Ltd.

1938-42: Winze in No. 2 shaft deepened to 827 feet vertical depth with additional levels at 700 and 800 feet. Shaft No. 1, 1,500 feet east of shaft No. 2, inclined 55° to 400-foot level, then 38° to 545-foot vertical depth; levels at 100, 200, 300, 400 and 500 feet. Lateral development 4,866 feet from No. 1 shaft and 2,872 feet from No. 2 shaft. Surface drilling 10,232 feet and underground drilling 5,710 feet by Jason Mines Ltd.

1945-48: No. 1 shaft deepened to 936 feet vertical depth with additional levels at 600, 700, 800 and 900 feet. Six surface diamond drill holes totalling 3,477 feet and 368 underground holes totalling 35,137 feet. Mill capacity increased to 150 tons. Work done by Jason Mines Ltd. until July 8, 1948 when company was reorganized and succeeded by New Jason Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividend dollars
1934	888	87	30,673	4,094	-
1936-38	14,835	1,433	519,378	43,249	-
1940-42					
1946,1947					
1949-52	86,152	8,268	3,256,842	229,230	119,960
Totals	101,875	9,788	3,806,893	276,573	119,960

(ODM Statistical Files, Jason Mines, New Jason Mines, Argosy Gold Mines, Casey Summit Gold Mines Ltd.).

References: ODM Vol.42, pt.6, p.30-34
ODM Vol.45, pt.4, p.28, 29
ODM Vol.46, pt.7, p.17-25
ODM Vol.52, pt.1, p.120
ODM Vol.62, pt.2, p.59, 60
ODM M.P.6, p.75, 76.

51°30' - 88°00'

Golden Hope Prospect

Main Metals: Au.

Location: NTS 52/P/09/E, Lat. 51°30', Long. 88°00', about 5 miles northwest of Fort Hope on Eabamet Lake north of Albany River. Shaft on claim PA39

Map Reference: ODM Maps 38b-1 and 51b, Fort Hope area.

Geology: Keewatin mafic to felsic volcanics striking east have been intruded by porphyry dikes dipping to the south. Gold-bearing quartz veins occurring in tension fractures in the volcanics have been found near the main dike about 1,000 feet long. Assay results of samples indicated an average of 1.0 ounces of gold per ton over a length of 575 feet and a width of nearly 3 feet. Accessory sulphides are pyrrhotite with minor pyrite and chalcopyrite.

Ownership: Unknown. Golden Hope Mines Ltd. held 16 claims from 1946 to about 1963.

History: 1927-28: Shaft 125 feet with 330 feet lateral development on the 100-foot level by Fort Hope Mines Ltd.

1934-35: Underground sampling; 5,000 feet diamond drilling in 17 holes by Fort Hope Consolidated Gold Mines Ltd.

1946-47: Trenching, magnetometer survey and 5,400 feet of diamond drilling by Golden Hope Mines Ltd.

1959: Surface exploration including bulk sampling by Golden Hope Mines Ltd.

References: ODM Vol.38, pt.1, p.104-105; pt.2, p.46

Canadian Mines Handbook 1946, p.124

Canadian Mines Handbook 1959, p.95.

52°15' - 92°45'

Spirit Lake Prospect

Main Metals: Au.

Location: NTS 53/C/07/W, Lat. 52°15', Long. 92°45', South Bay section of North Spirit Lake, 70 miles north of Casummit Lake.

Map Reference: ODM Map 47g, North Spirit Lake area.

Geology: Folded slates, greywackes and basalts have been intruded by a diorite stock and porphyries. The three main occurrences of gold-arsenopyrite mineralization are:

1. Camp and 'W' Islands on west side of South Bay. Mineralization occurs in short, narrow fractures in diorites; fracture zones extend for 200 feet on 'W' Island and for some 750 feet to the southeast of it. Gold assays of specimens range from 0.25 to 2.38 ounces of gold per ton.
2. 'A' section about 1 mile south of Camp Island. Narrow veins occur in porphyry adjacent to the contact between basalt and greywacke. Assays indicated 0.12 ounces of gold per ton.
3. 'J' and 'T' sections 2 miles east of Camp Island on the east shore of South Bay. Sulphides occur as a replacement of the matrix of conglomerate, which is interbedded with other sediments. Values of less than 0.04 ounces of gold per ton have been reported.

Ownership: Spirit Lake Mines Ltd. holds 44 of the original 96 claims.

History: 1936-37: Work done by Spirit Lake Gold Mines Ltd. includes trenching, pitting and electromagnetic surveys. More than 30 diamond drill holes, totalling about 8,000 feet, were completed most of which were located on Camp and 'W' Islands.

References: ODM Vol.47, pt.7, p.70-75
Financial Post Survey 1968, p.189.

52°45' - 93°30'

Berens River Mine (Past Producer)

Main Metals: Au, Ag, Pb, Zn.

Location: NTS 53/C/13/E, Lat. 52°45', Long. 93°30', about 120 miles north of Red Lake and 10 miles east of Favourable Lake. Shaft No. 1 on claim PA116 (new KRL45330), shaft No. 2 on claim PA120 (new KRL45333).
Map Reference: ODM Map 38a, Favourable Lake to Sandy Lake area.

Geology: A belt of folded volcanic and sedimentary rocks dipping steeply to the east has been intruded by gabbro and granite masses. Sub-parallel veins, dipping to the south, occur in easterly-trending shear zones within rhyolite and contain variable amounts of quartz, pyrite, sphalerite, galena, silver and gold. Faulting has both localized and offset the ore shoots.

Economic Features: No. 1 vein has been mined out; the average grade per ton of ore produced was 0.28 ounces of gold and 10.34 ounces of silver. The ore reserves for No. 3 vein down to 1,000-foot depth have been estimated at 600,000 tons at 20% dilution averaging 0.18 ounces of gold, 7.81 ounces of silver, 2.06% lead and 2.99% zinc. (Canadian Mines Handbook 1966-67, p.139).

Ownership: Golsil Mines Ltd. controlled by North Rock Explorations Ltd. and Flint Rock Mines Ltd.

History: No. 1 vein.
1928-29: Trenching; 25 diamond drill holes totalling about 3,500 feet by Favourable Lake Mining and Exploration Co. Ltd.
1936-48: Surface drilling about 32,000 feet; underground drilling about 14,000 feet to 1939, and 99,607 feet in 3,448 holes between 1940 and 1948. Vertical shaft No. 1 down to 1,898 feet with 13 levels; vertical winze 1,100 feet east of No. 1 shaft sunk from 1,700-foot level to 3,246 feet depth with 8 levels. Drifting 21,537 feet including drift to No. 3 vein on 1,550-foot level; 15,666 feet crosscutting. Mill capacity 225 tons per day. Work done by Berens River Mines Ltd. a subsidiary of Newmont Mining Corp.
No. 3 vein (2,000 feet north of No. 1 vein).
1928-29: Trenching; 9 diamond drill holes totalling about 1,900 feet by Favourable Lake Mining and Exploration Co. Ltd.
1941-47: Surface drilling. Vertical shaft No. 2 to 511 feet depth with levels at 190, 340 and 490 feet. Drifting 535 feet on 340- and 490-foot levels, and 775 feet on 1,550-foot level from No. 1 shaft by Berens River Mines Ltd.
1961-67: 25 surface holes totalling about 25,000 feet; underground drilling. No. 2 shaft deepened to 740 feet with new levels at 615 and 740 feet, drifting on 740-foot level by Golsil Mines Ltd.
No. 4 vein (1,450 feet north of No. 1 vein).
1941: Diamond drilling by Berens River Mines Ltd.
1960-64: Diamond drilling by Golsil Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividend dollars
1939-48	157,696	5,796,177	8,801,845	560,607*	520,000

Also produced lead 6,105,872 pounds and zinc 1,797,091 pounds; total value of all metals $9,481,498.
* Includes 10,000 tons from the No. 2 shaft area.
(ODM Statistical Files, Berens River Mines Ltd. and MRC.1, p.36).

References: ODM Vol.38, pt.2, p.70-78
ODM Vol.47, pt.7, p.79-92
Canadian Mines Handbook 1968-69, p.149.

53°45' - 92°45'

Lingman Lake Prospect

Main Metals: Au.

Location: NTS 53/F/15/W, Lat. 53°45', Long. 92°45', northwest side of

Lingman Lake, 200 miles north-northeast of Red Lake. Shaft on claim PA6132.
Map Reference: ODM Map 46c, Stull Lake-Sachigo River area.

Geology: An east-trending syncline of metavolcanics and metasediments has been intruded by mafic and felsic rocks. Gold occurs in four shear zones trending east to east-northeast in volcanics cut by quartz porphyry. Each of the two more promising zones, dipping 65°S, is 200 feet long and has been cut off to the west by a 200-foot thick diabase dike trending N10°E. Associated sulphides are pyrite, pyrrhotite, arsenopyrite and chalcopyrite.

Economic Features: Ore reserves are 148,000 tons averaging 0.4 ounces of gold per ton (Canadian Mines Handbook 1949, p.122).

Ownership: Lakelyn Mines Ltd.

History: 1945-48: Surface drilling. Shaft No. 1 to 422 feet with levels at 150, 275 and 400 feet. Lateral development 4,069 feet by Lingman Lake Gold Mines Ltd.
1949: Equipment for 200-ton mill shipped to property by Lake Lingman Gold Mining Co. Ltd.

References: ODM Vol.46, pt.4, p.17, 20, 21
Canadian Mines Handbook 1965, p.175
ODM M.P.27, p.14-17.

54°30' - 91°15'

Sachigo River Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 53/J/11/W, Lat. 54°30', Long. 91°15', on north shore of Foster Lake about 20 miles east of Ellard Lake and about 300 miles north of Sioux Lookout. Shaft on claim PA2352.
Map Reference: ODM Map 46c, Stull Lake-Sachigo River area.
ODM Map 2177, Swan Lake-Sachigo River Sheet.

Geology: A southeasterly-trending belt of steeply dipping metavolcanics and metasediments has been intruded by metadiorites and porphyries. No. 1 vein, trending N30°W in metadiorite averaged 0.30 ounces of gold per ton over a width of 2.5 feet; the vein was traced for 450 feet. Gold produced came from a quartz vein in a muskeg covered part of the property about 1/2 mile to the north. This No. 2 vein, trending N80°W, was associated with a dacite porphyry sill along the contact between fine-grained and coarse-grained mafic lavas. Accessory minerals were pyrite, sphalerite, pyrrhotite, chalcopyrite and galena. The average grade of the ore milled was 1.13 ounces of gold per ton.

History: 1936-42: Trenching and geophysical survey. 65 surface drill holes totalling 12,218 feet. Underground drilling 12,118 feet in 142 holes. Vertical shaft to 1,139 feet with levels at 125, 250, 375, 500, 650, 800, 950, and 1,100 feet. Lateral development 4,504 feet. Mill rated at 25 tons per day. Work done by Sachigo River Exploration Co. Ltd.

1961: Geological mapping, ground magnetic and electromagnetic surveys. Surface drilling 23 holes totalling 6,245 feet by Flint Rock Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1938-42	52,560	6,127	1,957,084	46,416

(ODM Statistical Files, Sachigo River Exploration Co. Ltd.).

References: ODM Vol.46, pt.4, p.56-58
ODM Vol.51, pt.1, p.185-188
ODM M.P.27, p.30-33.

KENORA DISTRICT

MINERAL OCCURRENCES

Location and Name	References	Metals	Remarks
Aubrey Tp., Lat.49°46', Long.93°04' Con II, Lot 6, S½ (Lone Pine Occurrence)	ODM 1939, Vol.48, pt.4, p.24 ODM Map 48d	Au	Shallow shaft
Avery Tp., Lat.49°41', Long.92°24' NW of Avery Lake (Avery Lake Occurrence)	ODM Map 2115	Au	Host rock consists of mafic metavolcanics
Boys Tp., Lat.49°41', Long.94°46' K 4248-50 etc. (Three Friends Occurrence)	ODM 1936, Vol.45, pt.3, p.30 ODM Map 45b	Au	1890-1891: Shaft sunk 45 ft., drifting 50 ft., 3 shafts and 3 test pits, quartz width 2 ft. Grab sample assayed 0.02 oz. Au/ton
Code Tp., Lat.49°36', Long.94°10' McA 56, 129 etc. (Triggs Occurrence)	OBM 1901, Vol.10, p.72 ODM Map 2115	Au Ag Cu	Shaft depth 225 ft. levels at 108 and 208 ft., total length of development 826 ft. in 1900; d.d. in 1951 by Rexora Mining Co. Ltd.
Code Tp., Lat.49°36', Long.34°13' K4544 (Witch Bay Occurrence)	ODM 1935, Vol.44, pt.4, p.39-40 ODM Map 39f	Au	Quartz vein 18 in. wide. Three shafts, deepest 100 ft. Low gold values on surface
Ewart Tp., Lat.49°43', Long.95°09' K30468, 30469, 30522-25, 32414, 32416 (Bardyke Occurrence)	ODM G.R.41, p.44 ODM Map 2069	Au	Oxidized shear zones occur near granitic dikes in mafic volcanics. Sampling indicated encouraging quantities of gold
Ewart Tp., Lat.49°43', Long.95°06' K23980 (Electrum Lake Occurrence)	ODM G.R.41, p.43 ODM Map 2069	Au	Visible gold and pyrite in thin quartz vein in altered mafic volcanics in one of six holes drilled
Ewart Tp., Lat.49°42', Long.95°06' K32207, K8519 (Francoeur Occurrence)	ODM G.R.41, p.36 ODM Map 2069	Au	Quartz stringers in sheared basalt; 0.12 ozs. Au/ton over 5-foot interval in drill hole on claim K8519
Ewart Tp., Lat.49°43', Long.95°06' 1500 ft. N of NE end High Lake (High Lake Occurrence)	ODM G.R.41, p.46-48 Mineral Resources Branch File Alcock, Property II, High Lake ODM Map 2069	Au Cu	Copper prospect; one drill hole intersected 26.5 ft. averaging 0.25 ozs. Au/ton
Ewart Tp., Lat.49°41', Long.95°08' K8844-5, 8849-50 (McCallum, F. Occurrence)	ODM 1965, Vol.41, p.44 ODM Map 2069	Au	0.40 ozs. of gold per ton across a width of 4 ft. in NW-trending shear zone in gabbro
Ewart Tp., Lat.49°42', Long.95°06' Claim K9191 (San Antonio (Camp Zone) Occurrence)	ODM G.R.41, p.33 ODM Map 2069	Au	Quartz stringers in shear zone in altered mafic lavas. Highest assay result in core was 0.04 ozs. Au/ton across about 1 foot
Ewart Tp., Lat.49°43', Long.95°07' 1½ miles E of Manitoba border (San Antonio (Fault Zone) Occurrence)	ODM G.R.41, p.32 ODM Map 2069	Au Cu	Visible gold in parallel shears trending N65°E within porphyry. Highest assay 0.04 ozs. Au/ton and 0.06% Cu
Forgie Tp., W end of Lake of Two Mountains (Page Occurrence)	ODM G.R.41, p.45 ODM Map 2069, Ewart-Forgie area	Au	Quartz veins in metasediments and felsic tuff trend N75°E, and dip north; best assay was 0.02 ozs. Au/ton over 5 ft.
Forgie Tp., E end of Lake of Two Mountains (Sylvanite Occurrence)	Mineral Resources Branch File, Forgie Tp.	Au	Quartz veins in metasediments sampled by Sylvanite Gold Mines Ltd. in 1944; mostly trace Au; best assay 0.40 ozs. Au/ton
Glass Tp., Lat.49°35', Long.94°56' D 233, D 389 (Bullion No. 2 Mine)	OBM 1901, Vol.10, p.79 ODM Map 39e	Au	Deepest No. 1 shaft 115 ft., 300 ft. of drifting and crosscutting. 3 small faulted quartz veins
Glass Tp., Lat.49°40', Long.94°50' 18 miles WSW of Kenora (Gautier Occurrence)	File K46, Resident Geologist, Kenora ODM Map 39e	Au	Shaft 50 ft. deep. Small adits on gold-bearing quartz veins in greenstone. 0.7 ozs. Au/ton
Glass Tp., Lat.49°34', Long.94°57' (Gold Coin Occurrence)	Mineral Resources Branch, Ottawa Files on gold - Olympia and Gold Coin ODM Map 39e	Au	Native gold possibly present in the mafic metavolcanic country rock
Glass Tp., few hundred feet S of southernmost part of Echo Bay (Great Granite Occurrence)	ODM G.R.41, p.46 ODM Map 39e, Shoal Lake area OBM 8, p.68	Au	Gold and bornite in 70-foot shaft in granite on claim 272E
Glass Tp., Lat.49°34', Long.94°56' Claim No. 397 (Imperial Occurrence)	OBM 1900, Vol.9, p.57-58 ODM Map 39e	Au	Five parallel veins, quartz stringers, 5 ft. by 8 ft. shaft sunk, 110 ft. crosscutting at 65-ft. and 100-ft. levels
Glass Tp., Lat.49°38', Long.94°58' N shore of Clytie Bay. Claim No. 352 E.A. etc. (Indian Joe Occurrence)	OBM 1903, Vol.12, p.94-95 OBM 1904, Vol.13, p.62 ODM Map 2115	Au	Shaft 85 ft. deep,level at 80 ft. drifting and crosscutting 177 ft.
Glass Tp., Lat.49°34', Long.94°36' S 105-7 (Monarch Occurrence)	OBM 1898, Vol.7, pt.2, p.121 ODM Map 39e	Au	Quartz vein 1 ft. wide, free gold, 2 pits each 20 ft. deep

Location and Name	References	Metals	Remarks
Glass Tp., Lat.49°38', Long.94°54' M 12 (Nonesuch Occurrence)	OBM 1896, Vol.6, p.48 and 252 ODM Map 39e	Au	Shaft 6 ft. by 9 ft. sunk 70 ft. deep, assays varying from $6 to $60 per ton
Glass Tp., Lat.49°34', Long.94°58' S74, D203, 204 (Ontario Occurrence)	OBM 1898, Vol.7, pt.1, p.53-54 ODM Map 39e	Au	12 veins, largest 900 ft. traced, 7 ft. width, stripping done
Glass Tp., Lat.49°35', Long.94°47' W A 7-9 (Sentinel Occurrence)	ODM 1936, Vol.45, pt.3, p.29 ODM Map 45b	Au	1898: Two shafts were sunk deeper than 100 ft. Quartz vein 6 ft. wide traced 20 ft. Grab sample assayed 0.11 ozs. Au/ton
Glass Tp., Lat.49°35', Long.94°57' D 410 S 182 etc. (Sirdar Occurrence)	OBM 1911, Vol.20, p.165 ODM Map 39e	Au	Shaft sunk to 125 ft., 200-ft. tunnel
Glass Tp., Lat.49°54', Long.94°58' S 94 (Yum Yum Occurrence)	OBM 1898, Vol.7, p.49-51 ODM Map 2115	Au	Seven veins and small stringers assayed $17 to $18, shaft sunk 86 ft. 1898: Diamond drilling
Hartman Tp., Lat.49°43', Long.92°25' (McKenzie Creek Occurrence)	ODM Maps 50e and 2115	Au	Host rock consists of mafic metavolcanics
Haycock Tp., Lat.49°47', Long.84°18' P 288 (Caribou Occurrence)	OBM 1892, Vol.2, p.234 ODM Map 2115	Au	1892: Development work done on a quartz vein
Haycock Tp., Lat.49°48', Long.94°19' P 351 (El Diver Occurrence)	OBM 1893, Vol.3, p.29-30 ODM Map 2115	Au	1892: Shaft 7 by 9 ft. sunk to 102 ft. Quartz vein 6 in. to 4 ft. wide. 60 tons production. Test pit 8 ft. deep
Indian Reserve No. 38B., Lat.49°45', Long.94°22' (O'Sullivan, J.J., Occurrence)	ODM 1936, Vol.45, pt.3, p.43 ODM Map 2115	Au	Fine-grained quartz vein 24 in. wide, 83 ft. long. Assay 0.53 ozs. Au/ton, $24 in gold, across 3 ft. for 80-ft. length
Jaffray Tp., Lat.49°48', Long.94°23' About 2 miles from the Scramble (Princess Occurrence)	OBM 1898, Vol.7, pt.1, p.58 ODM Map 2115	Au	Quartz vein showed free gold, shaft sunk 65 ft. deep in 1897
Jaffray Tp., Lat.49°48', Long.94°23' (Rajah Occurrence)	OBM 1893, Vol. 3, p.28 ODM Map 2115	Au	2 shallow shafts 60 and 63 ft. deep. Initially spectacular assay results
Jaffray Tp., claim P.318 about 5½ miles NE of Kenora town and 1 mile NW of airport (Roseman Occurrence)	ODM Kenora File K44	Au	Mafic metavolcanics are cut by a quartz vein carrying pyrite and gold. Grab samples reported to assay $10 in gold
Jaffray Tp., Lat.49°47', Long.94°22' Con.VI, Lot 15 (Royal Occurrence)	OBM 1898, Vol.7, pt.2, p.110 ODM Map 2115	Au	Free gold in quartzose schist band in granite
Jaffray Tp., Lat.49°47', Long.94°23' Con.VI, Lots 13 and 14 (Scramble Occurrence)	OBM 1915, Vol.24, pt.1, p.96	Au	1914: Shaft sunk 225 ft. deep, levels at 50, 75, 200 ft. 187 ft. of drifting and crosscutting
Jaffray Tp., claim P 210 about 5½ miles east of Kenora town (Thrasher P 210 Occurrence)	ODM Kenora File K44	Au	Shear zone striking N14°E in metavolcanics, contains quartz stringers and disseminated sulphides; only low gold values obtained in seven holes drilled
Kirkup Tp., Lat.49°38', Long.94°18' in Lake of the Woods, F 22, X 85 (Winnipeg Consolidated Occurrence)	Royal Commission (1890, p.115, 117) ODM Map 39f	Au	Quartz vein 3 ft. wide and 70 ft. long, inclined shaft sunk to 95 ft; 60 ft. of drifting
Laval Tp., Lat.49°53', Long.92°29' NW side Beartrack Lake (Laval Township Occurrence)	File K-13, Office Resident Geologist, Kenora ODM Map 2115	Au	Keewatin volcanics with quartz stringers carrying small amounts free gold
McAree Tp., Lat.49°50', Long.92°21' South of Conecho Prospect (Conecho Occurrence)	ODM P.R.1951-1, p.6 ODM Map 2115	Au	Gold values not obtained from diorite dike
MacFie Tp., Lat.49°45', Long.92°22' about 9 miles NE of Dinorwic (MacFie Township Occurrence)	Mineral Resources Branch, MacFie Tp.	Au	Quartz-carbonate vein; up to 15 ft. wide up to 0.14 ozs. Au/ton and pyrite
MacFie Tp., Lat.49°46', Long.92°23.5' about 1 mile south of Sandybeach Lake (Sandybeach Lake Occurrence)	Mineral Resources Branch, Sandybeach Lake ODM Map 2115	Au	Near the contact between metasediments and granite
Melgund Tp., Lat.49°34', Long.92°18' Con.III, Lot 4, SV254 and 263 (Pidgeon, G.L., Occurrence)	ODM 1960, Vol.69, pt.6, p.26 ODM Map 2115	Au	1959: 14 diamond drill holes, shear zone trenched 1,320 ft., visible gold in one pit, lenses or stringers 1 in. to 12 in. in width
Pellatt Tp., Lat.49°43', Long.94°34' 6 miles SW of Kenora town (Brae Breest Occurrence)	ODM 1936, Vol.45, pt.3, p.37-38 ODM Map 45b	Au	1936: Surface-trenching and d.d. $1.75 to $3.50 per ton over 80 ft. length. Quartz vein exposed 50 ft. and 9 ft. width
Pellatt Tp., Lat.49°42', Long.94°38' K 3963 (Oliver Severn Occurrence)	ODM 1936, Vol.45, pt.3, p.36-37 ODM Map 45b	Au	Quartz vein traced 50 ft., width 8 in.
Phillips Tp., Lat.49°14', Long.94°03' 2 miles S of Camp Bay, Claims S 141, E 281 (Boulder Occurrence)	OBM 1899, Vol.8, pt.1, p.61 ODM Map 52c	Au	Main shaft sunk 300 ft. deep with four levels. Vein striking NE, traced for ½ mile along contact mafic metavolcanics and granite

Location and Name	References	Metals	Remarks
Phillips Tp., Lat.49°15', Long.94°01' S56, ½ mile N of Camp Bay (Bully Boy Occurrence)	OBM 1899, Vol.8, p.60 ODM 1943, Vol.52, pt.4, p.14, 15 ODM Map 52c	Au	1905: Shaft 200 ft. deep with 16 or 20 ft. of drifting at 50-ft. depth; porphyry dike strikes N35°E and dips 70°-80°E
Phillips Tp., Lat.49°14', Long.94°00' S79, 3/4 miles W of Young's Bay, Kakagi Lake (Mascotte Occurrence)	ODM 1943, Vol.52, pt.4, p.5 ODM Map 52c	Au	3 small shafts; 3 quartz veins showed considerable native gold
Phillips Tp., Lat.49°13', Long.94°07' S77, W A 4, (Trojan Occurrence)	ODM 1943, Vol.52, pt.4, p.15 ODM Map 52c	Au	Several lenses of quartz, exposed 40 ft. length, 15 in. in width, two shafts sunk, deepest 114 ft.
Phillips Tp., Lat.49°15', Long.93°59' K 3090 (Wright, M.P., Occurrence)	ODM 1943, Vol.52, pt.4, p.16 ODM Map 52c	Au	Lenses of quartz in 275 ft. length, quartz 30 in. in width carrying visible gold
Pickerel Tp., Con.IV, Lot 9, SW¼ N½ (Claim KRL30579 Occurrence)	ODM G.R.75, p.22 ODM Map 2155 Western Minnitaki Lake area	Au	Quartz veins, 1 to 5 in. wide, occur near the contact between lava and rhyolite. In drill hole interval of 2½ ft. assayed 0.10 ozs. Au/ton
Pickerel Tp., Con.V, Lot 9, S½, Pa 10235 (Miller Group-Conwest Option Occurrence)	ODM G.R.75, p.22 ODM Map 2155 Western Minnitaki Lake area	Au	Pyrite and erratic gold in scattered quartz stringers which dip 60°W and occur in NE-striking diorite dike
Pickerel Tp., Con.VI, Lot 5, N½ (Quyte Occurrence)	ODM G.R.75, p.23 ODM Map 2155 Western Minnitaki Lake area	Au	Intermediate to mafic porphyry dike within andesite contains quartz filled fractures 1 to 3 in. wide with gold and sparse pyrite
Southworth Tp., Con.IV, Claim HW311 (Claim HW311 Occurrence)	ODM Maps 50e and 2115	Au	Host rock consists of mafic metavolcanics
Southworth Tp., Lat.49°41', Long.92°30' Con.III, Lot 6, N½ (Niemi, Ray, Occurrence)	Mineral Resources Branch File ODM Map 50e	Au Ag	Flat-lying quartz body 100 ft. square, chip samples assayed 0.1 ozs. Au/ton
Tweedsmuir Tp., Lat.49°20', Long.93°58' 3½ miles W of Dogpaw Lake Prospect (Bag Lake Occurrence)	Mineral Resources Branch, Bag Lake ODM Map 42c, Kakagi Lake area (Occurrence not shown)	Au Ag	Gold-bearing pyrite occurring in shear zone 4 to 8 ft. wide in mafic metavolcanics. Up to 2 ozs. of gold plus silver values occurring in 24 samples taken
Van Horne Tp., Lat.49°43', Long.92°53' Con. I, Lot 8, W½ (Gold Moose Occurrence)	ODM 1941, Vol.50, pt.2, p.50 ODM Map 50e	Au	1913: Shaft sunk 114 ft., exposed quartz vein 8 to 18 in. in width, 67 tons of ore mill test
Van Horne Tp., Lat 49°43', Long.92°54' Con. I, Lot 11 (Gordon Occurrence)	ODM 1941, Vol.50, pt.2, p.51 ODM Map 50e	Au	Two shafts 20 and 85 ft. deep. 1940: 500 ft. diamond drilling done and 12 trenches extensive sampling
Van Horne Tp., Lat.49°43', Long.92°51' Con. 1, Lot 6, N½ (League Occurrence)	ODM 1941, Vol.50, pt.2, p.51 ODM Map 50e	Au	Vein material quartz, ankerite, tourmaline, pyrite, with green mica and chalcopyrite
Willingdon Tp., ½ mile S of Regina Mine and N of Snake Bay. Claim D 222 (K3655) (Abraham, Michael, Occurrence)	ODM Vol.44, pt.4, p.33-35 ODM Vol.52, pt.4, p.16-17 ODM Map 52c	Au	Quartz vein 1 ft. wide occupies a shear zone in basalt, strikes E20°S and dips 70°NE, gold values were said to be encouraging. 1934-36: Shaft sunk approx. 40 ft., trenching and diamond drilling by M. Abraham and later by Neda Gold Mines Ltd. Since 1966 owned by Silver Belle Mines (1966) Ltd.
Willingdon Tp., Lat.49°02', Long.94°25' K7033-34, K85 7, etc. (Oliver Severn Occurrence)	ODM 1943, Vol.52, pt.4, p.17 ODM Map 52c	Au	Quartz veins 8 in. to 13 in. wide in quartz diorite. 1942: Trenching and two diamond drill holes
Zealand Tp., 1½ miles NE of Wabigoon Claim HW130 (Northern Queen Occurrence)	OBM 1917, Vol.26, p.186-187 ODM Map 50e	Au	Shaft sunk 60 ft. deep on quartz vein which is 1 to 3 ft. wide
Lat.49°00', Long. 91°15'; NTS 52/G/03/W N end of Redpaint Lake (Alcock, C.A., Occurrence)	ODM Vol.69, pt.5, p.47 ODM Map 1960g	Au Cu	Quartz-carbonate veins in metavolcanics; 4.5 ft. channel sample, 1.39 ozs. Au/ton, grab sample 0.35 ozs. Au/ton and 0.48% Cu
Lat.49°00', Long.91°15'; NTS 52/G/03/W between Blowout Lake and Claw Lake Claims K14517 and 14520 (Golden Winner Occurrence)	ODM Vol.69, pt.5, p.41, 42, 47 ODM Map 1960g, Lumby Lake area	Au	Quartz veins in shear zones in quartz porphyry-diorite complex between granite and mafic metavolcanics. Shaft 62 ft. with 175 ft. lateral development. Produced 15 tons with a total value of $70 in 1899, 1900. Noranda Mines Ltd. reported no significant gold assays from six holes drilled in 1951
Lat.49°00', Long.91°15'; NTS 52/G/03/W 2 miles W of Norway Lake (Knapp Occurrence)	Mineral Resources Branch File Knapp Group ODM Map 2065, Atikokan-Lakehead Sheet	Au	Staked by Carravelle Mines Ltd. in 1961 following airborne geophysical survey
Lat.49°00', Long.93°00'; NTS 52/F/03/E peninsula on NW side of Nelson Lake Claim HW271 (Gold Standard HW271 Occurrence)	OBM Vol.13, pt.1, p.68 ODM Vol.43, pt.4, p.21 ODM Map 43a	Au	Mafic metavolcanics cut by 6-ft. wide vein strike N. Quartz from dump assayed 1.80 ozs. Au/ton. 1902-03: Shaft sunk 95 ft., level at 80 ft. with 110 ft. crosscutting. Work by The Gold Standard Mining Co.

Location and Name	References	Metals	Remarks
Lat.49°00', Long.93°00'; NTS 52/F/03/E N side of Grant Lake (Sairy Gamp Lake) Location G340 (Gold Standard G340 Occurrence)	OBM Vol.10, p.100 OBM Vol.10, p.250 ODM Map 43a	Au	Mafic metavolcanics enclosing 8-ft. quartz body. 1900-01: Shaft sunk 150 ft. with 20 ft. of drifting by Gold Standard Mining Co.
Lat.49°00', Long.93°00'; NTS 52/F/03/E N side of Grant Lake (Sairy Gamp Lake) Claim G149 (Sairy Gamp Occurrence)	OBM Vol.10, p.100 ODM Map 43a	Au	Mafic metavolcanics enclose large NE-striking quartz body, dip 80°NW. During 1900: Shaft sunk 75 ft., level at 70 ft. on which 24 ft. of cross-cutting was done. Work by Rain Lake Mining and Power Co.
Lat.49°00', Long.93°15'; NTS 52/F/03/W N shore of Straw Lake. K 2549-50 (Konigson, Edward, Occurrence)	ODM 1934, Vol.43, pt.4, p.21 ODM Map 43a	Au	Shaft sunk 40 ft. deep. Small masses and stringers of quartz and carbonate. Grab sample assayed 2.65 ozs. Au/ton
Lat.49°00', Long.93°15'; NTS 52/F/03/W S side of Straw Lake. K 4016-17 (Straw Lake Occurrence)	ODM 1934, Vol.43, pt.4, p.26 ODM Map 43a	Au	Quartz veinlets 1 in. to 64 in. wide, 0.14 ozs. Au/ton
Lat.49°00', Long.93°45'; NTS 52/F/04/W near Peninsula Bay, Kakagi Lake (Burnt Occurrence)	Mineral Resources Branch, Burnt Peninsula, Kakagi Lake ODM Map 42b, Kakagi Lake	Au	Narrow quartz veins in diorite contain pyrite, chalcopyrite and gold
Lat.49°00', Long.93°45'; NTS 52/F/04/W about ½ mile N of Kakagi Lake and 1 mile W of Mangus Lake (Mangus Lake Occurrence)	ODM Kenora Files ODM Map 42b	Au Cu	Felsic metavolcanics intruded by diorite are cut by quartz veins striking east and dipping N70°E. Some pyrite, chalcopyrite and visible gold. Drilling indicated relatively high grade assays over narrow widths
Lat.49°15', Long.92°15'; NTS 52/F/08/W SE end of Church Lake (Church Lake Occurrence)	ODM Maps 42c and 2115	Au	Host rock consists of mafic metavolcanics
Lat.49°15', Long.92°15'; NTS 52/F/08/W NE of Kawashegamuk Lake	ODM Maps 42c and 2115	Au	Host rock consists of mafic metavolcanics
Lat.49°15', Long.92°30'; NTS 52/F/07/E Claim HP405 and HP407, N end of Upper Manitou Lake near Selby Lake; adjoins Big Master Mine to the south (Gold Rock Occurrence)	OBM Vol.13, pt.1, p.66 OBM Vol.15, pt.1, p.52-54 ODM Vol.30, pt.2, map facing p.42 ODM Map 2115, Kenora-Ft. Frances Sheet	Au	Worked from 1903-06: Several shallow shafts and a tunnel by the Gold Rock Mining and Milling Co. Ltd. 1936: Acquired by Selby Lake Mines Ltd. Since 1944: Owned by Kenwest Mines Ltd.
Lat.49°15', Long.92°30'; NTS 52/F/07/E S28 (Last Chance Occurrence)	ODM 1933, Vol.42, pt.4, p.25 ODM Map 42c	Au	Quartz vein 350 yds. traced, width 3 ft. Two pits opened
Lat.49°15', Long.92°30'; NTS 52/F/07/E Claims K918, K919 and HP405 on Trafalgar Bay of Upper Manitou Lake and SW of Big Master Mine (Selby Lake Occurrence)	ODM Vol.47, pt.6, p.3, 8-9 ODM Vol.48, pt.1, p.196 Canadian Mines Handbook 1937, p.237 ODM Map 47k, Mining Properties near Gold Rock	Au	Worked by Selby Lake Mines Ltd. from 1936-39; shaft sunk on K919 to depth of 265 ft. levels at 125 and 250 ft. Drifting totalled 155 ft. and cross-cutting 960 ft. Diamond drilling: underground 3,000 ft., surface 3,000 ft. Quartz lenses occur along NE-trending shear zone at the contact between mafic metabasalts and felsite dike. Ore shoot 9 ft. wide and 318 ft. long reported to average 0.37 ozs. Au/ton
Lat.49°15', Long.92°30'; NTS 52/F/07/E McA.28, ½ mile NW of Goldrock (Victory Occurrence)	ODM 1933, Vol.42, pt.4, p.27 ODM Map 42c	Au	1896-97: Shaft sunk 100 ft. on a quartz vein. Two quartz veins 6 in. in width, grab sample assayed trace of gold
Lat.49°15', Long.92°30'; NTS 52/F/07/E 20½ miles S of Dinorwic (Washeibemaga Lake Occurrence)	Mineral Resources Branch File Washeibemaga Lake ODM Map 2115	Au	Quartz stringers, 0.28 ozs. Au/ton across 5 ft. over 400 ft. length. 1968: New Calumet Mines Ltd. (Option) from Pelham GML
Lat.49°15', Long.92°45'; NTS 52/F/07/W K2205-2208 (Dryden-Red Lake Occurrence)	ODM 1933, Vol.42, pt.4, p.31 ODM Map 42c	Au	Pit. No. 1, 4-ft. vein assayed $12.80 Au/ton. Maximum width 20 ft.
Lat.49°15', Long.92°45'; NTS 52/F/07/W P 150 (Frenchman Island Occurrence)	ODM 1933, Vol.42, pt.4, p.31-32 ODM Map 42c	Au	Quartz vein lies in granodiorite traced 525 ft., width 1 ft. to 8 ft. Assayed $3.80 Au/ton
Lat.49°15', Long.92°45'; NTS 52/F/07/W K3594-99 (Manitou Island Occurrence)	ODM 1933, Vol.42, pt.4, p.27 ODM Map 42c	Au	Gold in sulphides near contact with a quartz-porphyry dike, grab sample assayed 1.22 ozs. Au/ton
Lat.49°15', Long.92°45'; NTS 52/F/07/W HW270 (Queen Alexandra Occurrence)	ODM 1933, Vol.42, pt.4, p.27 ODM Map 42c	Au	1904: Shaft sunk 85 ft. on a quartz vein, 18 tons ore treated $16 Au/ton. Grab sample $1.80 Au/ton
Lat.49°15', Long.92°45'; NTS 52/F/07/W K3412 (Reliance Occurrence)	ODM 1933, Vol.42, pt.4, p.33-35 ODM Map 42c	Au	No. 2 shaft 97 ft. deep. Quartz vein traced 800 ft. No. 1 shaft assayed $4.00 Au/ton
Lat.49°15', Long.92°45'; NTS 52/F/07/W K3920-21, K3693-94 (Swede Boys Occurrence)	ODM 1934, Vol.43, pt.4, p.26-27 ODM Map 42c	Au	Trenches 1,065 ft. 4.64 ozs. Au/ton. Quartz stringers in sheared chlorite schist, native gold
Lat.49°15', Long.92°45'; NTS 52/F/07/W HP259-260 (Swede Boys Island Occurrence)	ODM 1933, Vol.42, pt.4, p.36 ODM Map 42c	Au	Quartz vein 2 ft. wide, traced 15 ft. Native gold in schist, grab sample assayed $8.30 Au/ton. Stringers 6 ft. wide

Location and Name	References	Metals	Remarks
Lat.49°15', Long.92°45'; NTS 52/F/07/W SV343 (Watson Occurrence)	ODM 1933, Vol.42, pt.4, p.36 ODM Map 42c	Au	Vein outcrops 100 ft., 5 ft. wide in massive andesite
Lat.49°15', Long.92°45'; NTS 52/F/07/W K2954-56 (Wetelainen Occurrence)	ODM 1933, Vol.42, pt.4, p.36 ODM Map 42c	Au	Vein and lenses of quartz in massive andesite, 60 ft. length and 1 ft. wide. Assayed $3.60 Au/ton
Lat.49°15', Long.93°00'; NTS 52/F/06/E HW339 (Barker Occurrence)	ODM 1934, Vol.43, pt.4, p.19 ODM Map 43a	Au	1899: A shaft sunk 62 ft. deep, open cut along the vein, 100 ft. long, 3 ft. wide, 4 ft. deep
Lat.49°15', Long.93°00'; NTS 52/F/06/E HW515 (Petrie, D.C., Occurrence)	ODM 1934, Vol.43, pt.4, p.12 ODM Map 43a	Au	1899: Shaft sunk 60 ft. on quartz vein traced 250 ft. Assays 0.096 and 0.330 ozs. Au/ton
Lat.49°15', Long.93°30'; NTS 52/F/05/E JES93, JES110 (Nina Occurrence)	ODM 1933, Vol.42, pt.4, p.79 ODM Map 42b	Au	1900: Shaft 123 ft. deep, drifting 73 ft. tunnel on vein 70 ft. Vein 20 in. widest consists of stringers. Assayed 40 cents Au/ton
Lat.49°15', Long.93°30'; NTS 52/F/05/E SE end Shingwak Lake (Roy, McA 274 Occurrence)	ODM 1933, Vol.42, pt.4, p.85-86 ODM Map 42b	Au Cu	A lenticular quartz vein, average width 6 to 8 ft. and length 250 ft. was exposed in mafic metavolcanics; samples contained between 0.03 and 0.21 ozs. Au/ton and 0.23% to 6.2% Cu
Lat.49°15', Long.93°30'; NTS 52/F/05/E (Shingwak Lake Occurrence)	Northern Miner 1960, p.788 Aug.4; 1961, p.105-106 Feb.9; ODM Map 42b	Au	500-600 ft. quartz-carbonate vein with visible gold estimated as high as 1 oz. Au/ton
Lat.49°15', Long.93°45'; NTS 52/F/05/W 2 miles SW of Dogpaw Lake (Frobisher Occurrence)	Files of the Resident Geologist, Kenora ODM Map 42b	Au	1944: Fifty-one diamond drill holes. Quartz veins contain pyrite and pyrrhotite
Lat.49°15', Long.93°45'; NTS 52/F/05/W about 4 miles N of Kakagi Lake near southern extension of Stephen Lake (Kenty, J., Occurrence)	ODM Kenora Files	Au	Interbanded felsic metavolcanics are cut by shear zones which contain narrow quartz-carbonate veinlets with pyrite, chalcopyrite, sparse gold and molybdenite
Lat.49°15', Long.94°30'; NTS 52/E/07/E P64 (Dead Broke Occurrence)	ODM 1936, Vol.45, pt.3, p.29-30 ODM Map 45b	Au	Assays - $7 to $133 Au/ton, quartz vein 18 in. wide
Lat.49°30', Long.92°30'; NTS 52/F/10/E about 2 miles S of Tobacco Lake	ODM Map 2115	Au	Near the contact between mafic metavolcanics and granite
Lat 49°30', Long.92°30'; NTS 52/F/10/E near NW corner of Wabigoon Lake, Indian Reserve No. 27, southern end of Wabigoon Lake	ODM Maps 50e and 2115	Au	Host rock consists of mafic metavolcanics
Lat.49°30', Long.92°30'; NTS 52/F/10/E SE end of the E arm of Godson Lake (Godson Lake Occurrence)	ODM Maps 50e and 2115	Au	Host rock consists of mafic metavolcanics
Lat.49°30', Long.92°30'; NTS 52/F/10/E midway between Maryjo Lake and Humphrey Lake (Maryjo Lake Occurrence)	ODM Maps 50e and 2115	Au	Host rock consists of metavolcanics
Lat.49°30', Long.92°30'; NTS 52/F/10/E about ½ mile SW of Turtlepond Lake, W of Kaminnassin Bay (Turtlepond Lake Occurrence)	ODM Maps 50e and 2115	Au	Host rock consists of mafic metavolcanics
Lat.49°30', Long.92°45'; NTS 52/F/10/W SW end of Bob Lake (Pidgeon, G.L., Occurrence)	ODM P.R.1963-2, p.39 ODM Map 50e	Au	Quartz vein 100 ft. long contains high values in gold. Drill holes, vertical depth 110 ft. gold-bearing vein
Lat 49°30', Long.93°00'; NTS 52/F/11/E Claims K5591-9, K5742-7 (Fornieri Occurrence)	ODM 1939, Vol.48, pt.4, p.21-22 ODM Map 48d	Au	Quartz veins in silicified quartz porphyry, visible gold
Lat 49°30', Long.93°00'; NTS 52/F/11/E S part Eagle Lake (Magdalena Occurrence)	ODM Kenora Files, "Magdalena Red Lake Mines Ltd."	Au	Shear zone in pillow lavas strikes east and is mineralized with pyrite, pyrrhotite and chalcopyrite
Lat.49°30', Long.93°00'; NTS 52/F/11/E Claim S904 (Meridian Bay Occurrence)	ODM 1939, Vol.48, pt.4, p.24 ODM Map 48d	Au	Three trenches, widths 3 ft. to 12 ft. 1956 Geological and geophysical survey done
Lat.49°30', Long.93°00'; NTS 52/F/11/E (North Twin Island Occurrence)	Mineral Resources Branch File, North Twin Island, Eagle Lake ODM Map 48d	Au	18 in. wide quartz vein in rhyolite assayed 0.40 ozs. Au/ton
Lat.49°30', Long.93°00'; NTS 52/F/11/E K5619 etc. (Smith, W.W., Occurrence)	ODM 1939, Vol.48, pt.4, p.22-23 ODM Map 48d	Au	Numerous quartz stringers and veinlets, visible gold. 1936: Trenching and diamond drilling by Birch Bay Gold Mines Ltd.
Lat.49°30', Long.93°00'; NTS 52/F/11/E MCA230 (Swanson Occurrence)	ODM 1939, Vol.48, pt.4, p.24 ODM Map 48d	Au	1938: Pits were opened
Lat.49°30', Long.93°15'; NTS 52/F/11/W MCA282 (Golden Eagle Occurrence)	ODM 1906, Vol.15, p.55 ODM Map 48d	Au	Shaft 70 ft. deep, 160 ft. crosscutting 1903: 29 tons ore $10.60 Au/ton

Location and Name	References	Metals	Remarks
Lat.49°30', Long.93°15'; NTS 52/F/11/W MCA245 (Pioneer Island Occurrence)	ODM 1939, Vol.48, pt.4, p.24 ODM Map 48d	Au	Shaft depth 80 ft. with 160 ft. of drifting at 70-ft. level
Lat.49°30', Long.94°15'; NTS 52/E/09/W (Bath Island Occurrence)	OBM 1899, Vol.8, p.60 ODM Map 2115	Au	Shaft 100 ft. deep, bottom drifting carried 16 ft. in each direction of the vein in 1899
Lat.49°30', Long.94°15'; NTS 52/E/09/W in Bigstone Bay (Boulder Island Occurrence)	Royal Commission 1890, p.118 ODM Map 39f	Au	Quartz vein stripped 75 ft.; a lot of fine gold taken out in 1880; 5-stamp mill operated for four days only
Lat.49°30', Long.94°15'; NTS 52/E/09/W Claim D191A off shore Sultana Island (Burley Occurrence)	OBM 1899, Vol.8, p.52-54 ODM Map 39f	Au	1899: 180-ft. deep shaft, 8 ft. wide quartz vein
Lat.49°30', Long.94°15'; NTS 52/E/09/W on Fish Island (Fish Island Occurrence)	OBM 1892, Vol.2, p.233 ODM Map 39f	Au	1892: Shaft sunk 30 ft. deep
Lat.49°30', Long.94°15'; NTS 52/E/09/W Claim P237, near Pine Portage Bay (Gold Creek Occurrence)	OBM 1892, Vol.2, p.232 ODM Map 39f	Au	1892: Quartz vein traced 2,500 ft., shaft sunk 50 ft. deep, two test pits; deeper 16 ft., 14 ft. wide, assayed 0.43 and 0.98 ozs. Au/ton
Lat.49°30', Long.94°15'; NTS 52/E/09/W (Hay Island Occurrence)	OBM 1898, Vol.7, p.36-37 ODM Map 39f	Au	1899: 103 ft. deep shaft, 210 ft. drifting and crosscutting at 100 ft. level, two quartz veins traced 100 ft., 6 in. to 12 in. wide
Lat.49°30', Long.94°15'; NTS 52/E/09/W at Yellow Girl Bay (Homestake Occurrence)	OBM 1892, Vol.2, p.232	Au	1892: 50 tons of material mined
Lat.49°30', Long.94°15'; NTS 52/E/09/W in Lake of the Woods (Pine Portage Occurrence)	Royal Commission 1890, p.116 ODM Map 39f	Au	Shaft sunk to 100 ft. The quartz vein 6 ft. long, free gold, average $20 to $50 Au/ton
Lat.49°30', Long.94°15'; NTS 52/E/09/W JC100 (Scotty Island Occurrence)	OBM 1900, Vol.9, p.42 ODM Map 39f	Au	A shaft 4 ft. by 9 ft. sunk to 65 ft. level at 60 ft. 30 ft. of drifting on the vein in 1900
Lat.49°30', Long.94°15'; NTS 52/E/09/W C12 (Triumph Occurrence)	OBM 1899, Vol.8, p.55-56 ODM Map 2115	Au	1898: 6 ft. by 10 ft. shaft sunk 226 ft. levels at 107 ft., drifting about 80 ft.
Lat.49°30', Long.94°30'; NTS 52/E/10/E Claim K65 on Gull Island (Ambrose Occurrence)	ODM 1936, Vol.45, pt.3, p.30-31 ODM Map 45b	Au	5 quartz veins traceable 450 ft. long, 10 ft. to 12 ft. wide. 1898: Shaft sunk to 40 ft. deep
Lat.49°30', Long.94°30'; NTS 52/E/10/E K4073 (Ash Bay Occurrence)	ODM 1936, Vol.45, pt.3, p.38 ODM Map 45b	Au	Quartz vein 8 in. to 20 in. wide assayed 0.19 ozs. Au/ton
Lat.49°30', Long.94°30'; NTS 52/E/10/E K4386 (Gold Mountain Occurrence)	ODM 1936, Vol.45, pt.3, p.29 ODM Map 45b	Au	Quartz body exposed 350 ft. long, 30 ft. wide. Quartz dump assayed 0.04 ozs. Au/ton
Lat.49°30', Long.94°30'; NTS 52/E/10/E Western Peninsula, Lake of the Woods (Hatmaker Lake Occurrence)	Mineral Resources Branch File, Hatmaker Lake ODM Map 45b	Au Cu Ag	Metavolcanics intruded by feldspar porphyry containing a series of quartz veins; grab sample 1.12 ozs. Au/ton, 5.20 ozs. Ag/ton, and 0.93% Cu
Lat.49°30', Long.94°30'; NTS 52/E/10/E Con.II, Lot 6, S½ (Nor-Penn Occurrence)	Mineral Resources Branch File - Au Nor-Penn Property ODM Map 2115	Au	Early assay figures indicated 0.34 ozs. Au/ton
Lat.49°30', Long.94°30'; NTS 52/E/10/E JES38 etc. (Nora Occurrence)	ODM 1936, Vol.45, pt.3, p.28-29 ODM Map 45b	Au	1900: 4 ft. by 7 ft. inclined shaft 120 ft. deep, 42 ft. first level. Quartz vein 18 in. wide, grab sample assayed 0.30 ozs. Au/ton
Lat.49°30', Long.94°30'; NTS 52/E/10/E K3888 (Western Peninsula Occurrence)	ODM 1936, Vol.45, pt.3, p.38 ODM Map 45b	Au	Quartz vein 2 in. to 8 in. wide. Traced 130 ft. Assays 0.13 ozs. Au/ton
Lat.49°30', Long.94°45'; NTS 52/E/10/W McA. 51 (Standard Occurrence)	OBM 1896, Vol.6, p.49	Au	Two lodes widest 26 ft., veins stripped 150 ft., shaft 25 ft. deep, average assay $15 Au/ton
Lat.49°30', Long.95°00'; NTS 52/E/11/E group of small islands W of Stevens Island, Shoal Lake, Claims D484 to D489 (Golden Reef Occurrence)	OBM Vol.11, p.253 OBM Vol.12, p.94 ODM Map 39e	Au	Vein dips east. 1902: Shaft sunk 100 ft. at this level drifting totalling 90 ft. Originally known as Mikado Reef Location
Lat.49°45', Long.91°45'; NTS 52/G/13/W Claim Pa 11,459, 8 miles S of Sioux Lookout (Neepawa Island Occurrence)	ODM P.R.1951-1, p.8, 9 ODM Map P.353, Minnitaki - Sturgeon Lakes Sheet	Au	Mineralized zone, striking N30°W and dipping steeply towards NE, consists of 1 to 2 in. wide quartz veins in 15-ft. wide andesite band. Results of over 10,000 ft. of drilling and sampling of trenching indicated erratic distribution of gold
Lat.49°45', Long.92°00'; NTS 52/F/16/E S of Misfit Lake and N of Pickerel Arm (Batch River Occurrence)	ODM G.R.75, p.23 ODM Map 2155, Western Minnitaki Lake area	Au	Tuffaceous and variolitic lavas contain a 15-ft. wide and NE-trending zone with quartz veins 1 to 5 in. wide. Best assay was 0.1 ozs. Au/ton across 6 ft. Batch River Gold Mines drilled 1,100 ft. in 1950

Location and Name	References	Metals	Remarks
Lat.49°45', Long.92°00'; NTS 52/F/16/E (Claim BJ12 Occurrence)	ODM G.R.75, p.18 ODM Map 2155, Western Minnitaki Lake area	Au	Quartz vein, 5 to 6 ft. wide, in granite intruding greywacke and slate; some pyrite, chalcopyrite and galena; shaft to 35 ft.
Lat.49°45', Long.92°00'; NTS 52/F/16/E KRL24476 (K3313, K3421) (Hunter Group Occurrence)	ODM G.R.75, p.18-20 ODM Map 2155, Western Minnitaki Lake area	Au	Quartz veins and masses in quartz-feldspar porphyry and close to contact between porphyry and lavas; assays up to 0.26 ozs. Au/ton; pyrite is associated, sometimes also chalcopyrite and galena
Lat.49°45', Long.92°00'; NTS 52/F/16/E island to entrance to Southwest Bay of Minnitaki Lake (John Sykes Occurrence)	ODM G.R.75, p.20 ODM Map 2155, Western Minnitaki Lake area	Au	Steep northwesterly-dipping greywacke and slate intruded by quartz porphyry; quartz veins 2 to 10 in. wide in or near porphyry contain galena, sphalerite and pyrite. Assays ranging from 0.13 to 0.56 ozs. Au/ton
Lat.49°45', Long.92°00'; NTS 52/F/16/E 2 miles E of head of Pickerel Arm (Schmidt Occurrence)	ODM P.R.1951-1, p.11 Mineral Resources Branch File Schmidt Property ODM Map 41h, Sioux Lookout area	Au Ag	Quartz vein composed of parallel stringers in metabasalts, is 3 to 5 ft. wide, at least 1,400 ft. long, strikes N25°E and dips to NW. Erratic values in gold. Scattered galena, chalcopyrite and pyrite. 1,000 ft. drilling by Central Manitoba Mines Ltd.

KENORA DISTRICT, PATRICIA PORTION

MINERAL OCCURRENCES

Location and Name	References	Metals	Remarks
Baird Tp., about 1 mile SW of Flat Lake (Mallen Red Lake Occurrence)	ODM G.R.39, p.29 ODM Map 2072, Baird Township, Eastern Part	Au	3,000 feet of drilling by Mallen Red Lake Gold Mines Ltd. in 1946 intersected gold of below commercial grade; potential mineralized tuff horizons were not intersected
Baird & Fairlie KRL18486, 20064; (Redruth Occurrence)	ODM 1965, G.R.39, p.32-33 ODM Map 2072, Baird Township, Eastern Part	Au	1944-46: 15,000 ft. d.d. and trenching done by Redruth Gold Mines Ltd. No. 1 vein (KRL20064 Fairlie Tp.): 0.38 ozs. Au/ton across 22 in. for a length of 110 ft. No. 4 and No. 8 veins (KRL18486 Baird Tp.): best assay was 0.75 ozs. Au/ton over 18 in.
Balmer Tp. north of east end of McNeely Bay (Lassie Red Lake Occurrence)	ODM Vol.60, pt.10, p.48, 49 ODM Map, 1951-3, Township of Balmer	Au	22,683 ft. of diamond drilling in 39 holes completed in 1946; scattered erratic gold values in andesite
Balmer Tp. northwest part, west of Balmer Lake, five claims and part of an additional claim, mineralized zone on claims KRL19211 and KRL19212. (Marcus Occurrence)	ODM Map 1951-3, Township of Balmer ODM Map P.47, Township of Balmer Canadian Mines Handbook 1969-70 p.101-102	Au	1950-54: Three zones containing gold mineralization intersected in surface drilling by Marcus Gold Mines Ltd. 1964-66: Long crosscut on Cochenour Willans 1,300-foot level driven 2,800 feet in Balmer Tp., seven underground drill holes 2,899 feet and five surface drill holes 2,005 feet by Consolidated Marcus Gold Mines Ltd.
Balmer and Dome Tps. SE of McNeely Peninsula (Headway Red Lake Occurrence)	ODM G.R.45, p.68, 69 ODM Maps 1951-3 and 2074	Au	6,180 ft. of drilling in 1946; magnetic and electro magnetic surveys and additional drillings in 1963. Erratic gold values occur in quartz-carbonate stringers less than an inch wide in metabasalt and in a quartz-feldspar porphyry dike.
Bateman Tp. Lat.51°07', Long.93°43' Claims 16898, 16899 etc. (Leemac Occurrence)	ODM G.R.6, p.24 ODM Map 2016	Au	Native gold in quartz stringers
Dome Tp. Lat.51°04', Long.93°54' KRL11,103 (Colley Occurrence)	ODM Vol.49, pt.2, p.99-100 ODM Map 49b	Au	Quartz vein few inches to 5 ft. wide, 260 ft. long in granite
Dome Tp., between Rahill and McNeely Bays (Follansbee Red Lake Occurrence)	ODM G.R.45, p.60 ODM Map 2074, Dome Township	Au	About 4,800 ft. drilled in 11 holes in 1946. Trench samples of quartz latite assayed up to 0.26 ozs. Au/ton. Highest gold assay of core samples was 0.20 ozs. Au/ton
Dome Tp. Lat.51°02', Long.93°49' KRL1414 (Lewis Occurrence)	ODM 1966, G.R.45, p.69-70 ODM Map 2074	Au	Visible gold; 1961: Magnetic survey, 2,911 ft. d.d. done
Dome Tp., SE portion, on a bay of Red Lake (McManus Occurrence)	ODM G.R.45, p.79, 80 ODM Map 2074, Dome Township	Au	Quartz stringers in porphyritic quartz latite. Surface grab samples assayed from 0.02 to 0.80 ozs. Au/ton. At least 7,100 ft. of drilling in 1936; two drill holes intersected 1.0 ozs. Au/ton over width of 2 ft. at a depth of less than 100 ft.
Dome Tp. McKenzie Island (South McKenzie Occurrence)	ODM G.R.45, p.86 ODM Map 2074, Dome Township	Au	On claims KRL10954, 11238, and 11389 quartz lenses in felsic to intermediate metavolcanics assay up to 1.2 ozs. Au/ton over width of 10 in.
Fairlie Tp., central portion, and on N shore of Red Lake (Copper-Man Occurrence)	Mineral Resources Branch - file Copper-Man Mines. Canadian Mines Handbook 1969 Map P.422, Ridgefield Exploration	Au	13 holes totalling 2,266 ft. drilled along No. 1 vein in 1959 indicated oreshoot 300 ft. long and 3 ft. wide averaging 1.11 ozs. Au/ton. Property jointly owned by Copper-Man Mines Ltd. and Ridgefield Explorations Ltd.
Fairlie Tp., Red Lake Area (Drawson Occurrence)	Survey of Mines 1966, p.180	Au	1946-47 Surface work, 1950-51 Diamond Drilling
Heyson Tp., central portion; W of Killoran Lake (Ava Occurrence)	ODM G.R.56, p.44, 45 ODM Map 2125, Heyson Township, northern part	Au	Felsic metavolcanics intruded by NE striking metagabbro. Assay results up to 0.03 ozs. Au/ton. Magnetic and electromagnetic surveys followed by 2,010 ft. of drilling by Ava Gold Mining Co. Ltd. in 1959
Heyson Tp., northeastern portion; nearly 1 mile N of Wales Lake (Headway Red Lake)	ODM G.R.56, p.42, 43 ODM Map 2125, Heyson Township northern part	Au	Rhyolite intruded by bands of metagabbro, contains flat dipping quartz stringers. Highest assay result was 0.16 ozs. Au/ton over 2 ft. Trenching; 30 drillholes totalling 5,081 ft. by Headway Red Lake Gold Mines Ltd.

Location and Name	References	Metals	Remarks
Heyson Tp., western part; eastern end of Faulkenham Lake, claim KRL13129 (Heyson Red Lake Occurrence)	ODM G.R.56, p.43 ODM Map 2125, Heyson Township northern part	Au	Quartz stringers in NE-trending shear zones in felsic metavolcanics and quartz feldspar porphyries. Assay results vary between 0.08 and 1.20 ozs. Au/ton
Heyson Tp., west central portion; S of Snib Lake (Mills Occurrence)	ODM G.R.56, p.45 ODM Map 2125, Heyson Township, northern part	Au	Folded mafic to felsic metavolcanics, and metagabbro are trending NE; highest assay result of cores was 0.16 ozs. Au/ton over a 5 ft. section. 7 drill-holes totalling 4,193 ft. drilled by Mills Red Lake Gold Mines Ltd. in 1944
Heyson Tp., northwestern portion; S of Coin Lake, claim KRL13062 (Newman Occurrence)	ODM G.R.56, p.46 ODM Map 2125, Heyson Township, northern part	Au Cu	Narrow zone, trending east in felsic metavolcanics, is reported to carry considerable chalcopyrite and to have yielded substantial gold assay.
Heyson Tp., northwestern portion; N of Snib Lake, claim K1442 (Nova-Co Occurrence)	ODM G.R.56, p.47 ODM Map 2125, Heyson Township, northern part	Au	The two holes drilled indicated gold and sulphides associated with quartz-tourmaline veinlets in felsic metavolcanics. Highest assay result was 0.74 ozs. Au/ton over 1 ft. interval
Willans Tp. N central portion; on NE shore of Gullrock Lake (Northolt Occurrence)	Mineral Resources Branch, Ottawa: Northolt	Au	Quartz veins in mafic metavolcanics. Surface work by J. Perham in 1939 and 1940. Geophysical work by Northolt Mining Corp. Ltd. in 1965
Lat.50°00', Long.91°30' NTS 52/J/04/E (Clamshell Lake Occurrence)	Mineral Resources Branch (Clamshell Lake)	Au	Two quartz veins containing free gold
Lat.50°00', Long. 91°30' NTS 52/J/04/E 1 mile SW McDougall Mills, Claim K7456 (Floregold Occurrence)	ODM P.R. 1951-1, p.10	Au	2 ft. to 3 ft. quartz vein, visible gold in veinlets, 0.48 ozs. Au/ton
Lat. 50°15', Long. 94°00' NTS 52/L/08/E 45 miles N of Kenora (Helder Lake Occurrence)	Mineral Resources Branch File, Helder Lake Claims	Au	Sedimentary-volcanic series intruded by diorite and granite; shear zone with minor sulphides; some drilling
Lat.50°30', Long.95°00' NTS 52/L/11/E bounded by Rickaby, Odd and Wingiskus Lakes and Moose River (Honey Bee Occurrence)	ODM G.R.47, p.38; ODM Map 2097 Bee Lake Area; Canadian Mines Handbook 1946, p.144	Au	Shear zone in mafic metavolcanics contains quartz-tourmaline veinlets carrying pyrite, pyrrhotite and sparse gold
Lat.50°30', Long.95°00' NTS 52/L/11/E SW of Bee Lake, N of Rickaby Lake (Mamen L. Occurrence)	ODM G.R.47, p.35 ODM Map 2097, Bee Lake Area	Au W	Quartz veinlets in ironstone. Two trenches 9 ft. wide averaged 0.32 ozs. Au/ton. Up to 3% scheelite. Fourteen d.d. holes intersected very low grades.
Lat.50°30', Long.95°00' NTS 52/L/11/E S of Anderson Lake adjacent to Manitoba/Ontario boundary (Smith Group Occurrence)	ODM G.R.47, p.28 ODM Map 2097, Bee Lake Area	Au W	Mafic metavolcanics intruded by metadiabase. On claim KRL7969 a 42- ft. shaft, inclined 42°S, follows quartz vein. Grab sample from dump assayed 0.35 ozs. Au/ton
Lat.50°30', Long.95°00' NTS 52/L/11/E E half of Anderson Lake and NW of Rickaby Lake (Young J., Rickaby Lake Occurrence)	ODM G.R.47, p.29, 30 ODM Map 2097, Bee Lake Area	Au	Discontinuous quartz veins in schistose mafic metavolcanics contain locally minor pyrite, chalcopyrite(?) and pyrrhotite. Assays up to 3.8 ozs. Au/ton were reported
Lat.51°00', Long. 90°30' NTS 52/0/02/E 25 miles SW of Pickle Crow Mine and N of Lake St. Joseph (Koval-Ohman Occurrence)	Survey of Mines 1955, p.216, Hasaga Gold Mines Ltd.	Au	Tonnage calculated at 149,400 tons in length of 300 ft. averaging $6.75 over 16.6 ft. width to a depth of 350 ft.
Lat.51°00', Long. 91°30' NTS 52/0/04/W West of Lake St. Joseph (Bamaji Lake Occurrence)	Mineral Resources Branch File, Bamaji Lake. ODM Map 44f	Au	Keewatin volcanics intruded by granite and porphyries; trenching and sampling in 1955/66 disappointing; option held by Dome Mines, Campbell Red Lake Mines and Sigma Mines (Quebec) lapsed
Lat.51°00', Long. 91°30' NTS 52/0/04/E 2 miles NW of Slate Falls (Connell-Stirrett-Williams Occurrence)	ODM 1935, Vol.44, pt.6, p.73 ODM Map 44f	Au	0.15 ozs. Au/ton. Quartz vein few in. to 6 ft. trenched intermittently about 1/2 mile
Lat.51°15', Long. 92°15' NTS 52/N/08/W KRL10,006, 11,273 etc. (Brengold Occurrence)	ODM 1937, Vol.46, pt.7, p.25-26 ODM Map 46f	Au	5-ft. shear zone in greenstone, trench 60 ft. Quartz stringers 6 in. wide. 1934: 2 pits & trench, vein 8 ft. wide, 0.07 ozs. Au/ton
Lat.51°15', Long.92°15' NTS 52/N/08/W P15C, P6C (Dunkin, T., Occurrence)	ODM 1936, Vol.45, pt.4, p.21 ODM Map 45c	Au	Quartz stringers and mineralized schist traced 500 ft., maximum width 25 ft.; 1934: little stripping and trenching
Lat.51°15', Long. 92°15' NTS 52/N/08/W Claim KRL9852 etc. (Ellen Occurrence)	ODM 1937, Vol.46, pt.7, p.27 ODM Map 46f	Au	1936: Two veins explored in trenches and pits. Quartz vein 200 ft. exposed
Lat.51°15', Long.92°15' NTS 52/N/08/W KRL9687, 9691, 9771 (Hewitt-Ziyone Occurrence)	ODM 1937, Vol.46, pt.7, p.27-28 ODM Map 46f	Au	Quartz vein white to dark grey, native gold, 115 ft. in a trench with one pit, maximum width 20 in.
Lat.51°15', Long.92°15' NTS 52/N/08/W KRL 9746-51 (Moran, J.L., Occurrence)	ODM 1937, Vol.46, pt.7, p.28-29 ODM Map 46f	Au	Veins and stringers of quartz in shear zone in greenstone. 0.8 ozs. Au/ton

Location and Name	References	Metals	Remarks
Lat.51°15', Long.92°15' NTS 52/N/08/W Claims KRL10218-19 etc. (Richardson Lake Occurrence)	ODM 1937, Vol.46, pt.7, p.27-28 ODM Map 46f	Au	Quartz veins explored for 210 ft. in 6 diamond drill holes. Assayed 0.04 to 0.628 ozs. Au/ton, width 0.9 to 5.3 ft. 3 in. to 1 ft. quartz stringers in a band about 5 ft. wide
Lat.51°15', Long.92°45' NTS 52/N/07/W W side of Shabu Lake (Shabu Lake Occurrence)	Canadian Mines Handbook 1969-70, p.146 Mineral Resources Branch File - Shabu Lake ODM Map P.406	Au	Quartz veins in mafic metavolcanics. 1963: Flint Rock Mines Ltd. completed 7 diamond drill holes, located narrow sections assaying 0.72-0.80 ozs. Au/ton 1937: Previous owners (unrecorded) completed 6,500 ft. of diamond drilling
Lat.51°30', Long.91°15' NTS 52/0/11/W (Shonia Lake Occurrence)	Canadian Mines Handbook - 1960, p.51	Au	1959: Surface exploration and d.d. done by Castlebar Silver & Cobalt Mines Ltd.
Lat.51°30', Long.91°15' NTS 52/0/11/W (Smith-Watson Occurrence)	ODM 1930, Vol.39, pt.3, p.18-19 ODM Map 39d	Au	Native gold in quartz vein 1/2 in. to 2 in. in width; $8.60 Au/ton
Lat.52°15', Long.87°30' NTS 43/D/05/E N of Springer Lake (Springer Lake Occurrence)	ODM 1940, Vol.49, pt.8, p.9 ODM Map 49n	Au	Stockwork of quartz stringers 30 ft. wide, 0.02 ozs. Au/ton, 1936-37 d.d. done by Lansdowne Minerals Ltd.
Lat.52°15', Long.87°45' NTS 43/D/05/W SW end of Rowlandson Lake (Winisk Occurrence)	ODM 1940, Vol.49, pt.8, p.7-9 Canadian Mines Handbook 1938, p.159 ODM Map 49n	Au	Vein 300 ft. long and 6 ft. wide of which 8 in. gave 0.05 ozs. in gold. 5,000 ft. d.d. in 1938
Lat.52°30', Long. 90°15' NTS 53/B/09/W About 80 miles N of Pickle Crow G.M. (Opapimiskan Lake Occurrence)	Mineral Resources Branch File - Opapimiskan Lake	Au	Area underlain by Keewatin volcanics enclosing a belt of sediments of Timiskaming-type
Lat.53°00', Long.92°30' NTS 53/F/02/E On Island 1 mile SE Rahill Lake (Adams, D.H., No. 1 Occurrence)	ODM 1938, Vol.47, pt.7, p.43 ODM Map 2178	Au	Quartz vein, cutting quartz porphyry dike contains pyrite and gold
Lat.53°00', Long.92°45' NTS 53/F/02/W 3/4 mile SSW Rahill Lake (Adams, D.H., No. 2 Occurrence)	ODM 1938, Vol.47, pt.7, p.42-43 ODM Map 2178	Au	Mineralized zone in brecciated rhyolite dike 2 to 30 in. wide; grab sample 0.10 ozs. Au/ton
Lat.53°00', Long.92°45' NTS 53/F/02/W Just W of Fishtail Point (Fishtail Point Occurrence)	ODM 1938, Vol.47, pt.7, p.43 ODM Map 2178	Au	Grab sample of iron formation interbedded in pillow lava, assayed 0.08 ozs. Au/ton
Lat.53°00', Long. 92°45' NTS 53/F/02/W 1 mile W of Rahill's old cabin (Hansen, C.K., Occurrence)	ODM 1938, Vol.47, pt.7, p.42 ODM Map 47f	Au	Mineralized zone 300 ft. long, width 1 in. to 4 in., in pillowed andesite near rhyolite porphyry dike; stripping 95 ft. and 9 test pits, 0.11 ozs. Au/ton
Lat.53°00', Long.92°45' NTS 53/F/02/W 3 miles W of Fishtail Point (Walters-Shephard Occurrence)	ODM 1938, Vol.47, pt.7, p.41 ODM Map 2178	Au	Sparse gold in quartz, vein 3 to 9 in. wide cutting pillowed andesite
Lat.53°00', Long.92°45' NTS 53/F/02/W W side Fishtail Bay, Pa3822 (White, No. 1 Occurrence)	ODM 1938, Vol.47, pt.7, p.41 ODM Map 2178	Au	Quartz vein 6 to 9 in. wide in fracture zone trending N28°W in andesite, contains pyrite. Grab sample assayed 1.25 ozs. Au/ton
Lat.53°00', Long.92°45' NTS 53/F/02/W NE corner of Fishtail Bay (White No. 2 Occurrence)	ODM 1938, Vol.47, pt.7, p.42 ODM Map 2178	Au	Fracture trending N20°E across andesite and quartz-feldspar porphyry
Lat.53°00', Long.93°15' NTS 53/F/03/W N shore of NW arm of Sandy Lake, Pa3158 (Dubeau-Dussault Occurrence)	ODM 1938, Vol.47, pt.7, p.39 ODM Map 2178	Au	Quartz vein 4 to 6 in. cuts sheared dacite porphyry; 0.39 ozs. Au/ton. Visible gold present
Lat.53°00', Long.93°15' NTS 53/F/03/W Shore of NW arm of Sandy Lake, exact location unknown Pa3241 etc. (Moar Occurrence)	ODM 1938, Vol.47, pt.7, p.41	Au	Pyritic zone 10 ft. wide, 0.01 ozs. Au/ton. 1937: drilling done
Lat.53°00', Long. 93°15' NTS 53/F/03/W In W end NW arm Sandy Lake, Pa2965 (Sandborn No. 1 Occurrence)	ODM 1938, Vol.47, pt.7, p.40 ODM Map 2178	Au	5 in. to 6 in. cherty blue-grey quartz vein 0.03 ozs. Au/ton
Lat.53°00', Long.93°15' NTS 53/F/03/W W end of NW arm Sandy Lake, Pa2974 (Sandborn No. 2 Occurrence)	ODM 1938, Vol.47, pt.7, p.40 ODM Map 2178	Au	7 ft. silicified breccia zone, 0.02 ozs. Au/ton
Lat.53°00', Long.93°15', NTS 53/F/03/W Between NW arm of Sandy Lake, and Finger Lake. Pa3042, Pa3049 (Tully-Burton Occurrence)	ODM 1938, Vol.47, pt.7, p.40 ODM Map 2178	Au	12 ft. to 30 ft. wide mineralized silicified zone trenched; 0.13, 0.12, 0.06 and 0.05 ozs. Au/ton
Lat.53°15', Long.92°00' NTS 53/F/08/W (Lingman, O.J., Occurrence)	ODM G.R.74, p.60, incl. chart A, Fig.7	Au	0.02 ozs. Au/ton in chalcopyrite. Pyrite-rich quartz lens in metagabbro sill within north-trending mafic metavolcanics
Lat.54°00', Long.91°15' NTS 53/J/03/W SW end of Sherman Lake, Pa2399, etc. (Johnston Occurrence)	ODM 1937, Vol.46, pt.4, p.58-59 ODM Map 2177	Au	6 in. quartz vein in shear zone, low gold values. 1936: stripping and trenching done

Location and Name	References	Metals	Remarks
Lat.54°15', Long.91°30' NTS 53/J/05/E In Hanson River-Stables Lake belt (Baker Lake Occurrence)	ODM 1937, Vol.46, pt.4, p.58	Au	Quartz vein in shear zone in mafic metavolcanics, low gold values
(Lat.54°15', Long.92°15' NTS 53/K/08/W)? NE arm of Stull Lake, claims Pa2393 to Pa2398 (Cyril Knight Occurrence)	ODM Vol.46, pt.4, p.31 ODM Map 46c (claims not shown)	Au	Metavolcanics intruded by quartz-feldspar porphyry dikes, and 4 in. wide quartz stringer with some pyrites and some fine panable gold. Work by Cyril Knight Prospecting Co. Ltd.
Lat.54°15', Long.92°30' NTS 53/K/07/E (Birse-Richardson Occurrence)	ODM 1937, Vol.46, pt.4, p.29 ODM 1969, M.P.27, p.20-22 ODM Map 46c	Au	Quartz veins in easterly striking dacite sills occur at the contact of felsic & mafic metavolcanics; no VG; pyrite in diabase
Lat.54°15', Long.92°30' NTS 53/K/07/E island NW portion of Stull Lake (Ellard, K.G., Occurrence)	ODM Kenora files ODM Map 2178, Stull Lake - Sandy Lake Sheet	Au	No. 2 quartz vein 7.5 to 8 ft. wide in metabasalts containing quartz porphyry bands. Surface samples assayed from 0.02 to 4.00 ozs. Au/ton. In 1961 Rio Tinto Canadian Exploration Ltd. drilled 9 holes totalling 2,700 ft.; cores assayed up to 0.03 ozs. Au/ton
Lat.54°15', Long.92°30' NTS 53/K/07/E island S shore of Stull Lake (Stull Lake Occurrence)	Mineral Resources Branch files on gold. Stull (Big Mink) Lake ODM Map 2178, Stull Lake-Sandy Lake Sheet	Au	Two veins in silicified quartzite are 3 ft. and 7.5 to 8 ft. respectively and contain pyrite and some gold
Lat.54°15', Long.92°30' NTS 53/K/07/E P2322 (Wynne Syndicate Occurrence)	ODM 1937, Vol.46, pt.4, p.29	Au	Silicified 3-ft. and 6-ft. wide quartzite beds, 0.03 to 0.04 ozs. Au/ton. 1935: 1,500 ft. drilling

RAINY RIVER DISTRICT

BAKER TOWNSHIP

Harold Lake Mine (Past Producer)

Main Metals: Au.

Location: Baker Township; southeast part, on the western side of Harold Lake. Shafts and adits on claim X219.
Map Reference: ODM Map 48a, Atikokan area.

Geology: Auriferous veins occur in felsic intrusives and near their contacts with metavolcanics. No. 1 vein, strike N30°W, dip 65°SW, extends discontinuously over a length of 165 feet. The McComber vein strikes north, dips 55°E and is 150 feet long. Recovery averaged approximately 0.5 ounces of gold per ton of ore milled.

History: 1894-96: Open trenching and cutting; 2 shafts sunk; one is 40 feet deep, level at 27 feet with lateral work, the other is directly east of two adits. No. 1 adit approximately 59 feet and No. 2 is 135 feet long, winzes were sunk, that in No. 2 adit being 49 feet deep. A 5-stamp mill was erected. Work at first by the Wiley Bros. of Port Arthur and later by The Lake Harold Gold Mines Co. Ltd.
1937: Some development by Canadian Longyear Ltd.

Production:

Year	Total Value dollars	Ore Milled tons
1895-96	11,236	1,131

(ODM Statistical Files, Harold Lake Gold Mine).

References: OBM 1895, Vol. 5, p.145-148
OBM 1896, Vol. 6, p.78-79
ODM 1939, Vol. 48, pt.2, p.28-31.

BENNETT TOWNSHIP

Independence Mine (Past Producer)

Main Metals: Au.

Location: Bennett Township, S1/2 lot 11, con. 3, and fractions of lots 11 and 12 of con. 2, about 3 miles north of Sturgeon Falls on Seine River. Shaft on lot 11, con. 3

Geology: Schists containing quartz veins up to 3 feet wide.

History: 1896-99: Pitting. Shaft sunk to 75 feet, level at 45 feet, on which 20 feet of drifting and 13 feet of crosscutting were done. An adit driven 16 feet. A 5-stamp mill erected. Work by the Independence Mining and Development Co. Ltd.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1898	121	1,906	125

(ODM Statistical Files, Independence M & D Co. Ltd.).

References: OBM 1899, Vol. 8, p.81-83.

FREEBORN TOWNSHIP

Elizabeth Prospect

Main Metals: Au.

Location: Freeborn Township; extending north of Modred (Rice) Lake and 3 miles west of Steep Rock Lake. Shafts on claim FM171.
Map Reference: ODM Map 48a, Atikokan area.

Geology: Felsic intrusives and metavolcanics are cut by felsic and mafic dikes, and veins. The main vein, 1 to 14 feet wide, occurs along the felsic intrusives-metavolcanics contact striking northeast. Recovery of gold averaged 0.40 ounces per ton of ore milled.

History: Circa 1900-02: No. 1 shaft sunk to 94 feet, level at 80 feet on which approximately 100 feet of drifting was done; No. 2 shaft sunk to 240 feet, inclined at 75°E for the first 65 feet and then vertical, levels at 65, 136 and 236 feet on which approximately 337 feet of drifting and 130 feet of crosscutting was done. Diamond drilling of 12 holes totalling 1,880 feet. Erection of 15-stamp mill. Work by Anglo-Canadian Gold Estates Ltd.
1911: Underground operation by W.H. Nelson.
1911-14: No. 2 shaft; drifting totalling 275 feet and crosscutting 60 feet. Work by Elizabeth Gold Mines Ltd.
1935: Dewatering and examination by Elizabeth Gold Syndicate.
1935-56: More than 7 diamond drill holes from surface which totalled 1,591 feet, and some trenching. A 25-ton mill was constructed. Work by Elizabeth Gold Mining Co. Ltd.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1913	20	400	50

(ODM Statistical Files, Elizabeth Gold Mines Ltd.)

References: OBM 1902, Vol. 11, p.240-241
ODM 1937, Vol. 46, pt.1, p.131-132
ODM 1939, Vol. 48, pt.2, p.24-27.

HUTCHINSON TOWNSHIP

J.J. Walsh Prospect

Main Metals: Au, Ag.

Location: Western part Hutchinson Township, north shore of eastern part of Sapawe Lake. Shaft on claim BJ118.
Map Reference: ODM Map 38e, Sapawe Lake area.

Geology: Metavolcanics enclose two veins containing sulphides and free gold. Recovery of gold averaged 0.06 ounces per ton of ore milled.

Ownership: Anjamin Mines Ltd.

History: 1900-03: Pitting and a shaft sunk to 39 feet. Erection of 3-stamp mill. Work by J J. Walsh.
1928: Stripping, trenching and cleaning up of shaft by Jackson Syndicate.
1930-34: Shaft continued to 92 feet with level at that depth on which 50 feet of crosscutting was done. Considerable amount of diamond drilling and installation of 25-ton amalgamation mill. Work by Central Canada Mines Ltd.
1967-68: Surface work and diamond drilling by Anjamin Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1934	21	13	742	350

(ODM Statistical Files, Central Canada Mines Ltd. (Walsh).

References: ODM 1929, Vol. 38, pt.6, p.31
ODM 1931, Vol. 40, pt.1, p.69
ODM 1932, Vol. 41, pt.1, p.79
Survey of Mines 1970, p.164.

McCAUL TOWNSHIP

Jack Lake Prospect

Main Metals: Au.

Location: McCaul Township; central part, on southeast shore and south of Tyrell (Jacks) Lake. Shaft on claim AL325.
Map Reference: ODM Map 38e, Sapawe Lake area.

Geology: Metamorphosed granite encloses an auriferous vein strike N85°E.

Economic Features: Indicated tonnage reported by Fidelity Mining Investments Ltd. is 99,050 tons averaging 0.45 ounces of gold per ton (Canadian Mines Handbook 1962, p.93).

History: Circa 1900-02: Main shaft sunk 192 feet with levels at 102 and 187 feet on which 71 feet of drifting and 24 feet of crosscutting were done. Work by Jack Lake Gold Mining Co. Ltd.
1945-46: Surface exploration and at least 32 diamond drill holes. Work contracted out by Jack Lake Mines Ltd.
1961: Diamond drilling totalling 2,300 feet. Work by Fidelity Mining Investments Ltd.

References: ODM 1929, Vol. 38, pt.6, p.38-39
Canadian Mines Handbook 1962, p.93
Mineral Resources Branch file, Jack Lake.

Sapawe Mine (Past Producer)

Main Metals: Au, Ag.

Location: Southeast quarter of McCaul Township, 3 miles NW of Sapawe. Shaft on claim FF3417.
Map Reference: ODM Map 2065, Atikokan-Lakehead Sheet.

Geology: Metavolcanics and felsic intrusives are cut by quartz porphyry dikes and sills. Five auriferous veins are recorded. The Lindsay on claim FF3417 cuts quartz porphyry, strikes east for 480 feet, and is 6 feet wide at surface. Recovery of gold averaged 0.14 ounces per ton of ore milled.

Economic Features: Canadian Mines Handbook 1969-70, p.317 records an ore reserve estimated at 30,000 tons averaging 1.0 ounces of gold per ton.

Ownership: Sapawe Gold Mines Ltd., controlled by Shattuck Denn Mining Corporation.

History: Up to and including 1929: Numerous claims staked and some exploratory work performed e.g., M. Whitehead.
Circa 1960: Sinking of 10 short x-ray diamond drill holes by E. Corrigan and D. Young.
1960-63: Vertical shaft No. 1 sunk 351 feet, levels at 172 and 322 feet. Drifting totalled 826 feet and crosscutting 367 feet. Diamond drilling from 50 surface holes totalled 16,543 feet and from 4 underground holes 412 feet. Work by Lindsay Exploration Ltd.
1963-66: No. 1 shaft continued to 1,016 feet, additional levels at 520, 720 and 920 feet. Drifting totalled 3,051 feet and crosscutting 1,831 feet.

Diamond drilling from 1 surface hole totalled 185 feet and from 138 underground holes 8,041 feet. Mill capacity 100 tons, later increased to 125 tons. Work by Sapawe Gold Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1964-66	4,547	1,315	173,420	33,013

(ODM Statistical Files, Sapawe Gold Mines Ltd.).

References: ODM 1929, Vol. 38, pt.6, p.31-42
ODM 1961, Vol. 72, p.43
ODM 1967, Vol. 77, p.51-52
ODM Assessment File 63A-391, p.3-4
Mineral Resources Branch file, Sapawe.

RAMSAY WRIGHT TOWNSHIP

Sunbeam Mine (Past Producer)

Main Metals: Au.

Location: South-central part of Ramsay Wright Township. Shaft on claim AL282. Map Reference: ODM Map 2065, Atikokan-Lakehead Sheet.

Geology: Felsic intrusives enclose a vein, strike NE and dip approximately 50°NW.

History: Circa 1898-99: Shaft sunk 141 feet, vertical to 71 feet and then inclined, level established at 96 feet on which approximately 285 feet of drifting was done. Work by the Railroad Mining and Development Co. Ltd. 1899-1902: Shaft continued to 207 feet, with additional level at 113 feet on which 282 feet of drifting was done. Work by unrecorded operator. 1902-05: Shaft continued to 410 feet, additional levels at 212 and 295 feet on which approximately 1,000 feet of drifting was done. Upper vertical portion of shaft abandoned and the inclined continued to surface. A 10-stamp mill erected. Work by the New York and Ontario Gold Mining Co. Ltd. under option.

Production:	Year	Total Value dollars	Ore Milled tons
	1904	4,875	650

(ODM Statistical Files, Sunbeam Mine, AL282).

References: OBM 1899, Vol. 8, p.92-93
OBM 1902, Vol. 11, p.239-240
OBM 1903, Vol. 12, p.81
OBM 1904, Vol. 13, p.71
OBM 1905, Vol. 14, p.56.

TROTTIER TOWNSHIP

White Lilly Prospect

Main Metals: Au, Ag.

Location: Trottier Township, west-central part, west of Upham Lake and north of Magnetic Lake. Shaft on BJ101.
Map Reference: ODM Map 38e, Sapawe Lake area.

Geology: Metavolcanics are cut by a vein dip 80°S and approximately 14 inches wide.

History: 1906-07: Shaft sunk 80 feet and 2-stamp mill erected by unrecorded operator.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1933	2	4	53	65

(ODM Statistical Files, White Lilly Mine (Smith Bros. and Williams Co.).

References: ODM 1929, Vol. 38, pt.6, p.37.

48°30' - 92°30'

Foley Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/C/10/E, Lat. 48°30', Long. 92°30', northwest shore of Shoal Lake, and 5-1/2 miles southwest of Mine Centre. Shafts on claims AL74 and AL75.
Map Reference: ODM Map 2115, Kenora-Fort Frances Sheet.

Geology: Felsic intrusives enclose two groups of auriferous veins, a series striking almost due N and another striking W of N. Important veins are the Bonanza up to 3-1/2 feet wide on which the North shaft is situated, strike north, dip 75°-80°E with a possible continuation located on the 60-foot level of the South shaft; the Jumbo vein, strike NW, dip 75°-80°E which at the 150-foot level is 4 to 5 feet wide and narrows with depth, the possible southern continuation may be the "Daisy" vein, strike 10°W of N and dip 85°E. Recovery of gold averaged 0.15 ounces per ton of ore milled.

Economic Features: Estimated that 6,000 tons of ore occurs in North shaft area above 400-foot level. (Canadian Mines Handbook 1938, p.248, Santa Fe Gold Mines Ltd.).

History: 1893: AL75 staked by T. Wiegand and A. Lockhart.

1893-94: Shaft sunk 12 feet on AL75. Work by group composed of W.S. Ray, J. Green and T. Wiegand.

1894-98: Extensive surface cutting, pitting and shaft sinking - North shafts 420 feet, levels at 100, 150, 200, 300 and 400 feet, with winzes joining the first 4 levels, on which approximately 905 feet of drifting was done; South shaft to 101 feet level at 60 feet on which 131 feet of drifting was done, remainder of shafts were up to 40 feet deep with a small amount of lateral work. Erection of a 20-stamp mill. Work done by succession of owners, including Wiegand Gold Mining Co., Ontario Gold Mines Co., and Foley Gold Mines Co. of Ontario Ltd.

1900: Drifting on 2nd level of South shaft probably at 200 feet totalled 82 feet and 351 feet of crosscutting. Work by Canadian Mines Development Co. Ltd.

1920: Sampled by Swedish Canadian Mines Ltd.

1922-29: Winze sunk 450 feet from the 400-foot level of the North shaft and levels established at 500, 600 and 725 feet; later this winze was extended upwards to the 200-foot level. Drifting totalled 2,518 feet and crosscutting 648 feet. Drifting on the 200-foot level of the South shaft totalled 700 feet. Diamond drilling from more than 2 surface holes totalled 4,380 feet and from 1 underground hole 814 feet. Work by British Canadian Mines Ltd.

1933: South shaft dewatered to 50-foot level and 2-stamp amalgamation mill was assembled. Work by Foley Syndicate.

1934: Worked by R. Cone.

1936: Sampling by Sante Fe Gold Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
	1897-98, 1933-35	855	149	52,658	5,568

(ODM Statistical Files, Foley Mines Co. of Ontario Ltd.).

References: OBM 1894, Vol. 4, p.227-230
OBM 1896, Vol. 6, p.54-56, 260-262
OBM 1898, Vol. 7, p.68-71
OBM 1899, Vol. 8, p.84
OBM 1901, Vol. 10, p.94-95
ODM 1925, Vol. 34, pt.1, p.75, pt.6, p.25-27
ODM 1929, Vol. 38, pt.1, p.89
ODM 1930, Vol. 39, pt.1, p.86.

Golden Crescent Prospect

Main Metals: Au.

Location: NTS 52/C/10/E, Lat. 48°30', Long. 92°30', 1 mile east of the northern part of Island Bay of Bad Vermillion Lake and 2-1/2 miles south of Mine Centre. Shafts and tunnels on claim AD2 and probably AD3 and AD4.
Map Reference: ODM Map 2115, Kenora-Fort Frances Sheet.

Geology: Felsic intrusives enclose at least 5 veins, most extensively worked were Moose, strike N50°E and Gem,strike N83°W.

History: 1894-95: Surface work including pitting. Work by Campbell, Lavin, Fawcett and Handlan.
1897-98: Moose tunnel driven 116 feet and Moose shaft sunk 10 feet; Gem tunnel driven 135 feet and Gem shaft sunk 74 feet. One other shaft sunk 40 feet and a 2-stamp mill erected. Work probably by AD2 Gold Mining Co. of Ontario Ltd.
1898-1900: Gem shaft continued to 200 feet with levels at 88 and 193 feet, on which drifting totalled 199 feet. Moose tunnel extended to 154 feet. Work by The Golden Crescent Mining and Exploration Co. of Ontario.

Production:

Year	Total Value dollars	Ore Milled tons
1897	1,543	192

(ODM Statistical Files, Golden Crescent Mine (AD2).

References: OBM 1898, Vol. 7, p.74-75
OBM 1900, Vol. 9, p.71-72
OBM 1901, Vol. 10, p.82.

Golden Star Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/C/10/E, Lat. 48°30', Long. 92°30', east of the northern end of Bad Vermillion Lake and approximately 1-1/2 miles south of Mine Centre. Shafts on claim AL114.
Map Reference: ODM Map 2115, Kenora-Fort Frances Sheet.

Geology: Metavolcanics cut by a felsite dike and a number of veins. The main ore body is the Hunky vein, a dike enclosing quartz veins,strike NW, dip 70°-90°SW. Recovery of gold averaged 0.56 ounces per ton of ore milled.

Economic Features: Ore reserves estimated at 20,000 tons averaging better than 0.42 ounces of gold per ton. Tailing dump estimated to contain 35,000 tons averaging approximately 0.15 ounces of gold per ton. (Survey of Mines 1942-43, p.145, Orelia Mines Ltd.).

History: 1894: Discovered by N. Berger and E. Randolph.
1897-1901: Main shaft sunk 532 feet, levels at 74, 150, 225, 300, 357, 430 and 530 feet on which approximately 1,400 feet of drifting was done. First, second and third levels joined by winzes, and a further one sunk 30 feet from level 3. Another shaft inclined 70°SW sunk 87 feet, levels at 50 and 87 feet on which approximately 630 feet of drifting and 78 feet of crosscutting was done. A 10-stamp mill was erected on property of J041 Gold Mining Co., from whom surface rights were leased. Work by The Golden Star Mining and Exploration Co. of Ontario Ltd.

1927: A 5-ton amalgamation mill installed by W.E. Stone.
1928: Installation of a 25-ton mill by Northern Red Lake Mines Ltd.
1934: Mine dewatered and sampled by Golden Star Consolidated Mines Ltd.
1937: Treatment of 200 tons of tailings by Orelia Mines Ltd.
1938: Treatment of small amount of ore by L.A. Voges.
1940: Installation started of a 100-ton mill by Lower Seine Mining Co. Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1898-1901, 1934,1938, 1941	10,758	34	170,616	19,345

(ODM Statistical Files, Orelia Mines Ltd. (1936); Golden Star Mining and Exploration Co.).

References: OBM 1898, Vol. 7, p.73-74
OBM 1899, Vol. 8, p.76-79
OBM 1900, Vol. 9, p.66-69
OBM 1901, Vol. 10, p.79-80
ODM 1929, Vol. 38, pt.6, p.53-55
ODM 1941, Vol. 50, pt.1, p.77, 99.

Isabella Prospect

Main Metals: Au, Ag.

Location: NTS 52/C/10/E, Lat. 48°30', Long. 92°30', east of the northern end of Bad Vermillion Lake adjacent to the western boundary of the Golden Star Mine, and approx. 1-1/2 miles south of Mine Centre. Shaft on AL113. Map Reference: ODM Map 2115, Kenora-Fort Frances Sheet.

Geology: Metavolcanics cut by auriferous veins, strike N5°-30°W, that in the SW corner of the prospect dips 60-65°SW and is exposed over a length of 300 feet, and that in the north is 500 to 600 feet long.

History: 1899-1900: Shaft sunk 65 feet by unnamed company who purchased the property from Berger and Randolph.
1919-20: Worked by W.E. Stone.
1927-28: Development by Northern Red Lake Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1919-1920	15	2	319	2

(ODM Statistical Files, Stone, W.E.).

References: OBM 1900, Vol. 9, p.68
ODM 1928, Vol. 37, pt.1, p.134
ODM 1929, Vol. 38, pt.6, p.53-55.

Lucky Coon Prospect

Main Metals: Au, Ag.

Location: NTS 52/C/10/E, Lat. 48°30', Long. 92°30', north of Shoal Lake and east of Bad Vermillion Lake. Shafts on claim P655.
Map Reference: ODM Map 2115, Kenora-Fort Frances Sheet.

Geology: Felsic intrusives cut by auriferous veins striking NW to W. No. 2 vein reported to be 3 feet wide at surface and 10 feet at a depth of 50 feet.

History: 1894-99: A number of shafts were sunk, No. 1 to 50 feet, No. 2 to 108 feet, No. 3 to 24 feet and No. 5 to 78 feet and some lateral work done. A 5-stamp mill was constructed. After discovery by W. Campbell, A.M. Robertson and J. Mosher, further development work was done by a syndicate. In 1899 the property was purchased by Lucky Coon Gold Mining Co. Ltd.
1935: Work by Russell C. Cone.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1899, 1935-36	10	1	249	10

(ODM Statistical Files, Lucky Coon Gold Mining Co. Ltd.).

References: OBM 1895, Vol. 5, p.155-157
OBM 1900, Vol. 9, p.70
ODM 1936, Vol. 45, pt.1, p.94.

48°45' - 91°15'

Hammond Reef Mine (Past Producer)

Main Metals: Au.

Location: NTS 52/B/14/W, Lat. 48°45', Long. 91°15', east shore of Sawbill Bay of Marmion Lake. Shafts on 337X and 338X.
Map Reference: ODM Map P.543, Finlayson Lake area (East Half).

Geology: Felsic intrusives cut by melanocratic dikes and a quartz-filled shear zone approximately 200 feet wide, strike NE and dip 80°SE. Recovery of gold averaged 0.23 ounces per ton of ore milled.

History: 1895-98: Trenching and pitting; test shafts sunk 50, 80 and 127 feet, the latter inclined. Approximately 500 feet underground work. Erection of 10-stamp mill. Worked concurrently by The Hammond Gold Reef Mining Co. Ltd. and Folger Hammond Gold Reef Mines Co.

1899-1900: Quarry 150 by 50 by 35 feet deep;near to its west end a 60-foot shaft; trenching and a 55-foot tunnel. Additional 40 stamps installed. Work by The Hammond Reef Consolidated Mining Co. Ltd.

Production:

Year	Gold ounces	Total Value dollars	Ore Milled tons
1897	222	3,857	977

(ODM Statistical Files, Hammond Gold Reef Mining Co. Ltd.).

References: OBM 1898, Vol. 7, p.64-66
OBM 1901, Vol. 10, p.103-105
ODM 1925, Vol. 34, p.33.

Sawbill Lake Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/B/14/W, Lat. 48°45', Long. 91°15', east shore of Sawbill Bay of Marmion Lake north of Hammond Reef Mine. Shaft on claim 313X.
Map Reference: ODM Map P.543, Finlayson Lake area (East Half).

Geology: Felsic intrusives, cut by melanocratic dikes, enclose an auriferous vein strike N25°E, dip 85°E which is exposed for 50 feet. Recovery of gold averaged 0.19 ounces per ton of ore milled.

History: 1895-97: Main shaft sunk to 230 feet with levels at 60 and 120 feet on which 624 feet of drifting was done, an air shaft sunk 65 feet to first level. Erection of 10-stamp mill. Work by Sawbill Lake Gold Mining Co. Ltd.
1897-99: Main shaft continued to 245 feet with additional level at 240 feet from which a winze was sunk 50 feet, and a sublevel at 220 feet from which a 9-foot winze was sunk. Drifting approximated 189 feet. Work by a "Toronto Syndicate" composed of A. Hutchinson, A. Harvey, F. McPhillips and J.P. Williams.
1936-41: Shaft dewatered and 730 feet of drifting. Surface work including trenching, pitting and 575 feet of diamond drilling. A 50-ton mill installed. Work by Upper Seine Gold Syndicate.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1897-99, 1940-41	1,009	72	21,785	5,368

(ODM Statistical Files, Upper Seine Gold Mines).

References: OBM 1898, Vol. 7, p.63-64
OBM 1900, Vol. 9, p.78-79
ODM 1925, Vol. 34, pt.6, p.32-33
ODM 1938, Vol. 47, pt.1, p.222-223
ODM 1942, Vol. 51, pt.1, p.209-210.

48°45 - 92°30'

Olive Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/C/15/E, Lat. 48°45', Long. 92°30', southern shore, western end of Little Turtle Lake, approximately 4-1/2 miles west of Mine Centre. Shafts on claims G60 and G61.
Map Reference: ODM Map 2115, Kenora-Fort Frances Sheet.

Geology: Metavolcanics and metasediments, the latter enclosing a quartz vein, strike N80°E, dip 70°N and up to 2 feet wide. Recovery of gold averaged 0.49 ounces per ton of ore milled.

History: Circa 1898-1900: Numerous pits. B and Air shaft sunk 60 feet and connected to the A shaft which is inclined 70° and 251 feet deep, levels at 60, 135 and 245 feet. Approximately 1,335 feet of drifting and 90 feet of crosscutting was done, 2 winzes joined levels 1 and 2. Diamond drill holes were completed North and South from bottom of the A shaft. Two mills were erected, with 2 and 25 stamps respectively. Work by The Olive Gold Mining Co. of Seine River Ltd.
1935-37: Shafts dewatered, sampled and 1,000 feet of drifting and 100 feet of crosscutting on level 2. A 20-ton Straub amalgam mill installed. Work by Olive Gold Mines Ltd.
1942: Dewatered to 135-foot level and 20-ton Hardinge Mill installed. Work by Goldorel Mining Co. Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1897-1900, 1937, 1941-1942	3,572	343	80,636	7,255

(ODM Statistical Files, Olive Mine (Preston Gold Mining Co.).

References: OBM 1900, Vol. 9, p.72-74
ODM 1936, Vol. 45, pt.1, p.145-146
ODM 1938, Vol. 47, pt.1, p.182
ODM 1943, Vol. 52, pt.1, p.108
Mineral Resources Branch file, Olive (Preston) Mine.

Saundary Prospect

Main Metals: Au.

Location: NTS 52/C/15/E, Lat. 48°45', Long. 92°30', south shore of eastern part of Little Turtle Lake, 2 miles west of Mine Centre. Shaft on claim E237.

Map Reference: ODM Map 2115, Kenora-Fort Frances Sheet.

Geology: Mafic metavolcanics enclose two veins striking approximately east.

History: 1897-1900: Shaft sunk 105 feet, vertical down to 75 feet then inclined 70°N. On level at 75 feet, drifting totalled 17 feet and crosscutting 92 feet. Work by The Original Swede Boys Prospecting Co. of Rainy River Ltd. and from 1899 by The Headlight Gold Mining Co. of Ontario Ltd.

1933: Workings reconditioned, 25 feet of crosscutting and a small amalgamation mill constructed. Work by Saundary Syndicate.

Production:	Year	Gold ounces	Total Value dollars	Ore Milled tons
	1934	13	435	13

(ODM Statistical Files, Saundary Syndicate, Swede Boy Mine, Headlight Mine).

References: OBM 1899, Vol. 8, p.273
OBM 1900, Vol. 9, p.74-75
ODM 1934, Vol. 43, pt.1, p.98.

RAINY RIVER DISTRICT

MINERAL OCCURRENCES

Location	References	Metals	Remarks
Freeborn Tp., NE corner, NE of Wagita Bay of Steep Rock Lake and NW of Little Ganell Lake. Claim FF2361 (K413) (Black Fly Occurrence)	Mineral Resources Branch file - Black Fly ODM Map 48a, Atikokan area ODM Map P.542, Finlayson Lake area (West Half)	Au	Metavolcanics and felsic intrusives enclose auriferous veins. 1897: discovered; worked in 1939 by Steep Rock Iron Mines Ltd.
Freeborn Tp., west-central part 1 mile NE of NW end of Modred Lake and ½ mile E of Elizabeth Mine; shaft on claim FF2736. (Rebair Occurrence)	ODM 1939, Vol.48, pt.1, p.187; pt.2, p.27-28 ODM 1940, Vol.49, pt.1, p.193 ODM Map 48a, Atikokan area	Au	Metavolcanics and conglomerate cut by felsic intrusives and veins. 1937-39: Trenching, shaft sunk 42 ft. on Dome vein; 9 surface diamond drill holes totalling 1,133 feet, by Rebair Gold Mines Ltd.
Freeborn Tp., north-central part, between Wagita Bay of Steep Rock Lake and Barr Lake. Claims HP568, HP570, HP581. (Steep Rock Occurrence)	Mineral Resources Branch file - Steep Rock Lake ODM Map 48a, Atikokan area	Au	Metavolcanics cut by mineralized quartz veins. Prospected since 1890s; 1939: Probably investigated by Steep Rock Iron Mines Ltd.
Halkirk Tp., E end of Swell Bay of Raine Lake. (Corrigan Occurrence)	ODM 1970, MP33, p.40-41 ODM Map 2115, Kenora-Fort Frances Sheet	Au	Gabbro and basalt, the former cut by veins generally from 6 inches to 2 feet wide, one of which assayed 0.82 oz. Au/ton across a 4-foot wide shear zone.
Lat.48°15', Long.90°45'; NTS 52/B/07/W between Saganagons and Saganaga Lakes, claims FF7261-67, FF5903 (10852), FF5899 (10853). (Bishop Occurrence)	ODM Resident Geologist's files, Kenora - Bishop ODM Map 2065, Atikokan-Lakehead Sheet	Au	Porphyry intrusives in mafic metavolcanics enclose the main vein, strike N35°E, dip 45°NW which assayed trace to 0.66 oz. Au/ton. Limited amount of work by Coniagas Mines Ltd., Konasco Exploration and Mining Ltd. and others between 1937-57.
Lat.48°30', Long.92°30'; NTS 52/C/10/E approx. 4 miles SW of Mine Centre. (Richmore Occurrence)	Mineral Resources Branch file - Richmore	Au	Quartz porphyry encloses a series of veins. 1934 U.S. Smelting and Refining Co. Ltd. established a zone 165 feet long averaging 0.44 oz. Au/ton across 3.9 feet. Subsequent diamond drilling was not so encouraging.
Lat.49°00', Long.93°30'; NTS 52/F/04/E, N shore of Dash Lake, NE of S part of Pipestone Lake. (Dash Lake Occurrence)	Mineral Resources Branch file - Dash Lake ODM Map 44e, Rowan-Straw Lakes area	Au	Porphyry dike encloses a series of quartz veins, diamond drilling showed erratic gold values.
Lat.49°00', Long.93°30'; NTS 52/F/04/E between Bethune and Nightjar Lakes. (Bethune Occurrence)	ODM 1935, Vol.44, pt.4, p.24 ODM Map 44e, Rowan-Straw Lake area	Au	Mafic volcanics enclose a quartz porphyry dike and a vein. The latter assayed between 0.02 and 0.98 oz. Au/ton.

THUNDER BAY DISTRICT

ASHMORE TOWNSHIP

Hard Rock Mine (Past Producer)

Main Metals: Au, Ag

Location: Ashmore Township, southwest part, 3-1/2 miles southeast of Geraldton and east of the MacLeod-Cockshutt Mine. No. 1 shaft on claim TB9985, and No. 2 on TB9991.
Map Reference: ODM Map P.435, MacLeod Mosher Gold Mines Ltd.

Geology: Felsic to intermediate metavolcanics with associated bands of iron formation have been intruded by sill-like masses of feldspar porphyry and some younger north-trending diabase dikes. The formations have been intensely and tightly folded into a synclinorium plunging gently in a westerly direction west of No. 1 shaft. Most ore was derived from quartz stringer zones 'A' and 'B' in metavolcanics and iron formation. These zones dip steeply and plunge at about 10°-16° to the west; individual stringers are 1/4 to 4 inches wide. Zone 'A' is adjacent to a porphyry tongue. In another type of ore gold was intimately associated with pyrite and arsenopyrite. Lenses and irregular masses of quartz and sulphides up to 300 feet long and 30 feet wide in iron formation were found in the steeply south-dipping North Zone (No. 30 vein system). The third type of ore consisted of veins in feldspar porphyry and iron formation. Recovery averaged 0.18 ounces of gold per ton of ore milled.

Ownership: Lake Shore Mines Ltd., controlled by The Little Long Lac Gold Mines Ltd.

History: circa 1931: Trenching by Homestake Mining Co.
1934-51: Two shafts sunk: No. 1 to 475 feet, levels at 200, 325, and 450 feet from the latter, a winze was sunk to 591 feet, level at 575 feet, drifting totalled 4,734 feet and crosscutting 1,634 feet; No. 2 to 1,410 feet, levels at 150, 250, 360, 475, 625, 775, 925, 1,075, 1,225, and 1,375 feet, a winze was sunk to 800 feet from the 475-foot level and levels established at 625 and 775 feet, approximately 29,945 feet of drifting and 11,731 feet of crosscutting were done. The shafts are connected at the 475-foot level. Diamond drilling from surface totalled 46,002 feet and from underground 221,206 feet. A cyanide mill, capacity 200 tons was installed, capacity was later increased to 500 tons per day. Work by Hard Rock Gold Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividend Dollars
1938-51	269,081	9,009	10,057,426	1,458,375	926,923

(ODM Statistical Files, Hard Rock Gold Mines Ltd.).

References: ODM 1935, Vol. 44, pt.3, p.4, 51
ODM 1938, Vol. 47, pt.1, p.129-131
ODM 1951, Vol. 60, pt.5, p.51-73
ODM 1952, Vol. 61, pt.2, p.27
Canadian Mines Handbook 1969-70, p.102, 205-206, 219.

MacLeod-Cockshutt Mine (Past Producer)

Main Metals: Au, Ag.

Location: Ashmore Township, SW part extending into Errington Township, S of Barton Bay and N of Southwest Arm of Kenogamisis Lake (Little Long Lac). Shafts on TB10040 and TB10038.
Map Reference: ODM Map P.435, MacLeod Mosher Gold Mines Ltd.

Geology: Felsic to intermediate metavolcanics and bands of iron formation have been intruded by sill-like masses and dikes of feldspar porphyry. Mineralization is associated with shearing and fracturing within or adjacent to an intensely folded synclinorium plunging gently in a westerly direction. Most ore is derived from the 'F' zone consisting of numerous quartz stringers. This steeply-dipping zone occurs near a porphyry, is 20 to 60 feet wide, 400 to 700 feet high and is continuous along the plunge for 8,300 feet of which about 4,500 feet is located on the property of the Mosher Long Lac Mine to the west. Another type of ore zone consists of lenses and irregular masses of sulphides and quartz in iron formation. Gold in the latter type is intimately associated with pyrite and arsenopyrite. Recovery of gold averaged 0.15 ounces per ton of ore milled to the end of 1966.

Economic Features: MacLeod-Cockshutt Mine closed in late 1970.

Ownership: Lake Shore Mines Ltd., controlled by The Little Long Lac Gold Mines Ltd.

History: 1931: Staked by MacLeod and Cockshutt.
1933-34: Diamond drilling from surface totalling 8,780 feet by Connell Mining and Exploration Co. under option.
1934-67: No. 1 shaft sunk to a depth of 2,250 feet, with 14 levels in all and sub-level designated 12a; levels 1 to 11 and 13 are at 150, 350, 500, 650, 800, 950, 1,100, 1,271, 1,421, 1,520, 1,721 and 2,022 feet respectively; level 12 and sub-level 12a are at approximately 1,816 and 1,750 feet respectively; the depth of level 14 is unrecorded. An inclined winze connects level 10 to 13. Shaft No. 2 sunk to a depth of 1,921 feet with levels at 200, 350, 500, 650, 800, 950, 1,100, 1,200, 1,400 and 1,740 feet. Nos. 1 and 2 shafts are connected to each other on the 500-, 1,100- and possibly 1,740-foot levels and to the Mosher Long Lac Mine No. 1 shaft on level 11, 12 and 13. Drifting totalled 107,280 feet and crosscutting 29,449 feet. Diamond drilling comprised more than 203 surface holes totalling 55,556 feet and more than 7,083 underground holes, totalling 735,461 feet. A 500-ton mill was constructed which was first expanded to 1,000 and

finally to 1,500 tons capacity. Work by MacLeod-Cockshutt Gold Mines Ltd.
1967: Including development at Mosher Long Lac Mine drifting totalled 16 feet, crosscutting 177 feet and diamond drilling 1,287 feet in 2 underground holes. Work by MacLeod-Mosher Gold Mines Ltd.
1968: Development continued by Lake Shore Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
MacLeod-Cockshutt Gold Mines Ltd.					
1938-67	1,366,404	90,864	49,163,569	9,403,145	3,860,262
MacLeod-Mosher Gold Mines Ltd. (amalgamation of above company with Consolidated Mosher Mines Ltd.)					
1967-68	109,324	10,524	4,146,062	934,084	Nil

(ODM Statistical Files, Consolidated Mosher Mines Ltd.; MacLeod-Cockshutt Gold Mines Ltd., MacLeod-Mosher Gold Mines Ltd.).

References: ODM 1937, Vol. 46, pt.1, p.174-175
ODM 1951, Vol. 60, pt.5, p.75-94
ODM 1954, Vol. 63, pt.2, p.60-62
ODM 1958, Vol. 67, pt.2, p.63
ODM 1966, Vol. 76, p.48-49
ODM 1967, Vol. 77, p.41-42.

DOROTHEA TOWNSHIP

Amorada Prospect

Main Metals: Au, Ag, Mo.

Location: Dorothea Township, extending eastwards into Sandra Township, 2 miles east of Bish Bay of Lake Nipigon; surface workings on claims TB15668, 15681 and 15799.
Map Reference: ODM Map 45a, Sturgeon River Gold Area.

Geology: Metavolcanics and mafic intrusives are cut by veins striking in a-easterly direction and extending over a length of up to 1,600 feet.

Economic Features: Six veins were explored. Diamond drilling on vein designated as No. 1A indicated a lens 25 feet long and 18 inches wide averaging 1.1 ounces of gold per ton. Vein No. 3, 1,000 feet to the south contains negligible gold but grades 2.0% molybdenite over a width of 3 feet along a strike length of 1,220 feet.

History: Work probably done by Springer Sturgeon Gold Mines Ltd., Brennan and Kenty Bros. Prospecting Co. Ltd., Mid-Canada Exploration Co. Ltd., Kenbro Sturgeon Gold Mines Ltd. and Amorada Gold Mines Ltd.
1958-59: Diamond drilling and geophysical survey by Nortoba Mines Ltd.
1965: Diamond drilling, trenching and stripping by Candore Exploration Ltd.

References: ODM 1936, Vol. 45, pt.2, p.88-91
Survey of Mines 1959, p.161
ODM 1968 Mineral Resources Circ. No.7, p.69-70
Mineral Resources Branch File, Woods-Tyson (Amorada or Nortoba) Claims.

ERRINGTON TOWNSHIP

Bankfield Mine (Past Producer)

Main Metals: Errington Township, west-central part extending into Lindsley Township, encloses the southwestern part of Magnet Lake. Shaft on claim TB10213.
Map Reference: ODM Map 1951-7, Township of Errington.

Geology: Greywacke with bands of conglomerate, slate and iron formation strike N60°-70°W and dip 75°-80°S. They have been intruded by diorite, quartz porphyry and ultimately by a 200-foot wide diabase dike which runs parallel to a strike fault near the mine workings. The main ore horizon consisting of a sheared, brecciated and highly silicified zone occurs near a contact between the sediments and a porphyry-diorite mass. It strikes N72°-85°W, dips 70°-78°S, has an average width of 7 feet and is, including its extension into the adjacent Tombill property, 2,000 feet long. The main associated sulphides are pyrite, arsenopyrite and pyrrhotite. Recovery of gold averaged 0.29 ounces per ton of ore milled.

Ownership: Bankfield Consolidated Mines Ltd.

History: 1934-36: Shaft sunk to 552 feet, levels at 150, 275, and 525 feet. Drifting totalled 2,468 feet and crosscutting 781 feet. Diamond drilling underground totalled 1,416 feet and on surface 2,237 feet. Work by Bankfield Gold Mines Ltd.
1936-42: A winze (located in Lindsley Township) was sunk from the 525-foot level to a depth of 1,297 feet from the surface, levels at 779, 900, 1,025, 1,150 and 1,275 feet. Sub-levels established from 275-, 1,025- and 1,150-foot levels and at the 400-foot level. Drifting totalled 14,516 feet and crosscutting 7,832 feet. Diamond drilling included 132 underground holes totalling 21,628 feet, 6 surface holes totalling 2,328 feet, and 10,145 feet of unspecified drilling. A 100-ton cyanide mill was constructed. Work by Bankfield Consolidated Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1937-42, 1944-47	66,417	7,590	2,424,545	231,009

(ODM Statistical Files, Bankfield Consolidated Mines Ltd.).

References: ODM 1936, Vol. 45, pt.1, p.81-82
ODM 1937, Vol. 46, pt.1, p.100-101
ODM 1943, Vol. 52, pt.1, p.74
ODM 1951, Vol. 60, pt.6, p.70-82.

Little Long Lac Mine (Past Producer)

Main Metals: Au, Ag.

Location: Errington Township, southeastern part, extending eastwards into Ashmore and surrounding most of Kenogamisis Lake (Little Long Lac). Shaft on claim TB10560.
Map Reference: ODM Map 1951-7, Township of Errington.

Geology: Arenaceous metasediments with interbeds of iron formation and some mafic intrusives have been folded into a synclinal structure striking N88°W. The orebodies occur in fracture zones in massive quartz greywacke on the drag folded north limb of the syncline. The Main vein zone is 3 to 4 feet wide, strikes approximately N75°E, dips 80°S-80°N and consists of two parallel veins 2 to 6 inches in width. Some ore was also extracted from the lower grade 09 vein zone located about 600 feet to the south of the Main zone; this zone is about 2 feet wide, strikes N65°E, dips 85°S and contains scheelite which was recovered during the war. Average gold recovery was 0.34 ounces per ton of ore milled.

Ownership: The Little Long Lac Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1934-54, 1956	605,449	52,750	22,157,269	1,780,516	4,253,115

(ODM Statistical Files, Little Long Lac Gold Mines Ltd.)

In addition 202,892 lbs. of low and high grade WO_3 concentrates were produced during 1943 (ODM 1951, Vol. 60, pt.6, p.85).

History: 1933-53: Shaft sunk to 2,318 feet, levels at 200, 300, 445, 570, 695, 850, 1,000, 1,152, 1,300, 1,450, 1,600, 1,750, 1,900, 2,050 and 2,200 feet from which a winze was sunk to 3,952 feet, levels at 2,405, 2,558, 2,711, 2,864, 3,013, 3,159, 3,309, 3,459, 3,609, 3,759 and 3,920 feet. Drifting totalled 37,370 feet and crosscutting 10,596 feet. Diamond drilling from surface totalled 105,626 feet and underground drilling totalled 101,558 feet. A 150-ton mill was installed and later a small mill for scheelite production was added. Work by Little Long Lac Gold Mines Ltd.
1967-68: Testing, including 5,000 feet of diamond drilling for iron formation by The Little Long Lac Gold Mines Ltd.

References: ODM 1935, Vol. 44, pt.3, p.33-43
ODM 1945, Vol. 54, pt.2, p.56-58
ODM 1951, Vol. 60, pt.6, p.84-100
ODM 1954, Vol. 63, pt.2, p.49-50
Canadian Mines Handbook 1969-70, p.212.

Magnet Consolidated Mine (Past Producer)

Main Metals: Au, Ag.

Location: Errington Township, southwest part, east of Bankfield Mine. Shaft on claim 10398.
Map Reference: ODM Map 1951-7, Township of Errington.

Geology: Metasediments, mostly greywacke with interbeds of iron formation and conglomerate, strike N70°W and dip 75°-80°S. Intrusives consist of dikes and sill-like masses of diorite and porphyry, and younger diabase dikes cutting across the formations. The two ore bodies, raking 30°-45°W, consist of lenticular quartz veins and accompanying veinlets predominantly in sheared greywacke. The Magnet vein zone, average strike N75°W and near vertical dip, has been developed for a maximum length of about 1,300 feet. The leaner North zone, 50 to 100 feet to the north, strikes N80°W and dips vertically to steeply north. Average recovery of gold was 0.42 ounces per ton of ore milled.

Ownership: Conigo Mines Ltd.

History: 1934-36: Trenching by Magnet Lake Gold Mines. 24,641 feet of diamond drilling by Wells Longlac Mines Ltd.
1936-40: Shaft sunk to 1,115 feet, levels at 203, 328, 480, 630, 780, 930 and 1,080 feet on which 11,181 feet of drifting and 1,943 feet of crosscutting was done. Diamond drilling of 13 holes underground totalled 1,665 feet. A 100-ton amalgamation-floatation mill was built. Work by Magnet Consolidated Mines (1936) ltd.
1940-52: Shaft continued to 1,772 feet, with additional levels at 1,230, 1,380, 1,555 and 1,730 feet. An inclined winze 228 feet long constructed between levels 9, 10 and 11. A winze sunk 931 feet from the 1,730-foot level to a total depth of 2,640 feet, levels at 1,884, 2,037, 2,160, 2,312, 2,460 and 2,610 feet. Drifting totalled 19,585 feet and crosscutting 2,944 feet. Diamond drilling of 7 surface holes totalled 4,029 feet and for 265 underground holes 43,054 feet. Work by Magnet Consolidated Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1938-43, 1946-52	152,089	16,879	5,730,635	359,912	855,000

(ODM Statistical Files, Magnet Consolidated Mines (1936) Ltd.).

References: ODM 1935, Vol. 45, pt.1, p.168
ODM 1936, Vol. 46, pt.1, p.176-177
ODM 1940, Vol.49, pt.1, p.169
ODM 1941, Vol.50, pt.1, p.92-93
ODM 1951, Vol.60, pt.6, p.100-113
ODM 1953, Vol.62, pt.2, p.55-56.

Mosher Long Lac Mine (Past Producer)

Main Metals: Au, Ag.

Location: Errington Township, SE part, S of Mosher Lake and 3 miles S of Geraldton. Shafts on claims TB10046 and TB10065.
Map Reference: ODM Map 1951-7, Township of Errington.
ODM Map P.435, MacLeod Mosher Gold Mines Ltd.

Geology: Metasediments and metavolcanics are intruded by sill-like masses and dikes of felsic to mafic rocks. Mineralization occurs adjacent to feldspar porphyry located in a synclinorium plunging gently in a westerly direction. The ore represents the western extension of the 'F' zone exploited at MacLeod-Cockshutt Mine. Recovery of gold averaged 0.12 ounces per ton of ore milled to the end of 1966.

Economic Features: Ore reserves at 31st December 1968 for the MacLeod Mosher Division of Lake Shore Mines Ltd. were 977,230 tons averaging 0.129 ounces of gold per ton (Survey of Mines 1970, p.128). Most or all of these reserves occurred at Mosher Long Lac Mine. MacLeod Mosher Division closed in late 1970.

Ownership: Lake Shore Mines Ltd. controlled by The Little Long Lac Gold Mines Ltd.

History: 1934-39: More than 27,000 feet of diamond drilling done by Mosher Long Lac Gold Mines Ltd.
1952-54: No. 1 shaft on claim TB10046 sunk to 2,041 feet, levels at 500, 1,000, 1,250, 1,500, 1,740, 1,890 and 2.040 feet and sub-levels at 250 and 750 feet. Drifting totalled 1,601 feet and crosscutting 352 feet. Diamond drilling comprised 1 surface hole totalling 1,100 feet and 26 underground holes totalling 9,693 feet. Work by New Mosher Longlac Mines Ltd.
1954-66: No. 1 shaft deepened to 2,530 feet, levels at 2,180, 2,327 and 2,474 feet, and connected to the shaft at MacLeod Cockshutt Mines on the 1,740-, 1,890- and 2,040-foot levels. A winze (No. 3 shaft) was sunk from the 2,040-foot level to 3,173 feet below the surface, levels at 2,190, 2,337, 2,484, 2,631, 2,778 and 2,925 feet. Drifting totalled 23,925 feet and crosscutting 10,719 feet. Diamond drilling comprised 7 surface holes totalling 2,453 feet and 1,324 underground holes totalling 185,816 feet. No. 2 shaft was sunk 52 feet. Work by Consolidated Mosher Mines Ltd. Ore milled at MacLeod-Cockshutt Mine.
1967: Development by MacLeod Mosher Gold Mines Ltd.; statistics combined with those for MacLeod-Cockshutt Mine.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
Consolidated Mosher Mines Ltd.				
1956, 1962-66	330,265	34,604	12,500,537	2,710,657

MacLeod-Mosher Gold Mines Ltd. (amalgamation of above company with MacLeod-Cockshutt Gold Mines Ltd.)

1967,				
1968	109,324	10,524	4,146,062	934,084

(Figures for 1967-68 include production from MacLeod-Cockshutt Mine).
(ODM Statistical Files, Consolidated Mosher Mines Ltd.; MacLeod-Cockshutt Gold Mines Ltd., MacLeod Mosher Gold Mines Ltd.).

References: ODM 1935, Vol. 44, pt.3, p.51-52
ODM 1951, Vol. 60, pt.6, p.118-120
ODM 1954, Vol. 63, pt.2, p.69-70
ODM 1957, Vol. 66, pt.2, p.26-27
ODM 1963, Vol. 73, p.23-24
ODM 1967, Vol. 77, p.41-42
Canadian Mines Handbook 1969-70, p.219.

Talmora Longlac Mine (Past Producer)

Main Metals: Au, Ag.

Location: Errington Township, S side of Barton Bay of Kenogamisis Lake and 2-1/2 miles SW of Geraldton. Shaft on claim TB1639.
Map Reference: ODM Map 1951-7, Township of Errington.

Geology: Greywackes with interbeds of iron formation and intruded by a diorite mass have been folded into a westerly-plunging anticline. A felsic intrusive occurs as a sill-like mass on the south limb. Two steeply-dipping diabase dikes up to 100 feet wide cross the anticline in a northerly direction. Shear zones, strike N60°-80°E and dip 45°-90°N, near the diorite-greywacke contact contain quartz lenses averaging less than one foot in thickness. Main associated sulphides are pyrite and arsenopyrite. Recovery of gold averaged 0.21 ounces per ton of ore milled.

Economic Features: Reserves have been estimated at 12,000 tons grading 0.37 ounces of gold per ton (ODM 1951, Vol. 60, pt.1, p.125).

Ownership: Tombill Mines Ltd.

History: 1934-36: Extensive surface trenching and diamond drilling. Work by Longlac Lagoon Gold Mines.
1938-40: Shaft sunk 544 feet, levels at 195, 315 and 515 feet on which 4,796 feet of drifting and 1,038 feet of crosscutting were done. Diamond drilling included 400 feet from the surface and 2,449 feet in 4 underground holes. Work by Elmos Gold Mines Ltd.
1940-42: Trenching, stripping and 2 underground diamond drill holes totalling 234 feet. Installation of 50-ton mill. Work by Tombill Gold Mines Ltd.
1947-48: Drifting totalling 1,663 feet and crosscutting 670 feet. Diamond drilling comprised 4 surface holes totalling 139 feet and 91

underground holes totalling 10,776 feet. Work by Talmora Longlac Gold Mines Ltd.
1968: Geophysical work by Tombill Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1942, 1948	1,417	36	53,168	6,634

(ODM Statistical Files, Elmos Operations of Tombill Gold Mines, and Talmora Long Lac Gold Mines Ltd.).

References: ODM 1940, Vol. 49, pt.1, p.113-114
ODM 1943, Vol. 52, pt.1, p.192-193
ODM 1948, Vol. 57, pt.2, p.86
ODM 1949, Vol. 58, pt.2, p.75-76
ODM 1951, Vol. 60, pt.6, p.124-131
Canadian Mines Handbook 1969-70, p.351.

Tombill Prospect

Main Metals: Au.

Location: Errington Township, southeast and south-central part, 56 claims, approximately 4 miles southwest of Geraldton, around the southern end of the southwestern extension of Barton Bay of Kenogamisis Lake.
Map Reference: ODM Map 1951-7, Township of Errington.

Geology: Pre-Kenoran metasediments, predominantly greywacke with interbeds of iron formation and conglomerate, and metavolcanics have been intruded by a parallel mass of hornblende diorite up to 700 feet wide. Together they constitute part of the northwest-trending southern limb of the syncline the apex of which is occupied by albite porphyry. All the rocks are cut by north-trending diabase dikes. The main mineralized zone, the central porphyry section, is 1,500 feet long and occupies a shear zone along the northern contact of albite porphyry and greywacke. The best assay was 0.26 ounces of gold per ton over 2.5 feet. Other mineralized zones occur but, with one exception which assayed 0.26 ounces of gold per ton over 1 foot, gave low assays.

Ownership: Tombill Gold Mines Ltd.

History: 1934-36: Surface work and more than 20,000 feet of diamond drilling by Longacre Longlac Gold Mines Ltd. and Longlac Lagoon Gold Mines Ltd.
1937: Surface work and diamond drilling on the Longlac Lagoon Gold Mines Ltd. section by Elmos Gold Mines Ltd.
1940-47, 1969: Total of 9,601 feet of diamond drilling and geophysical survey by Tombill Gold Mines Ltd.

References: Canadian Mines Handbook 1935, p.144, 145
Canadian Mines Handbook 1937, p.85
Canadian Mines Handbook 1947, p.309
ODM 1951, Vol. 60, pt.6, p.131-134
Canadian Mines Handbook 1969-70, p.351
Canadian Mines Handbook 1970-71, p.354.

EVA TOWNSHIP

Leitch Mine (Past Producer)

Main Metals: Au, Ag, W.

Location: Eva Township, east-central part, spreading into Summers Township, 3/4 mile S of Lake Eva and 3-3/4 miles NW of Beardmore. Shaft on claim HF1.

Map Reference: ODM Map P.484, Leitch Gold Mines Ltd.

Geology: Greywacke with interbeds of iron formation and conglomerate trend westward, dip steeply north and have been intruded by a few diorite and diabase dikes. In shaft No. 1 a diabase sheet dipping gently eastward was intersected fro- 1,871 to 2,470 feet below surface. Quartz veins, ranging in width from 4 to 24 inches occur in greywacke. No. 2, the most persistent vein strikes northeast and dips 65°NW; the ore has been mined for 4,600 feet along its rake of 75° to the southwest. No. 1 vein, strike N60°W, dip 80°NE, and the western part of No. 4 vein are highly folded. No. 2 vein and north-trending No. 3 vein extend downwards into Sand River Mine to the west. Recovery of gold averaged 0.92 ounces per ton of ore milled.

Ownership: Leitch Gold Mines Ltd.

History: 1935-65: Shaft sunk to 3,006 feet, levels at 125, 225, 325, 425, 525, 650, 782, 900, 1,025, 1,150, 1,275, 1,400, 1,525, 1,650, 1,800, 2,200, 2,575, 2,725, 2,875, and 2,950 feet; from the 2,875-foot level a winze was sunk to a depth of 4,612 feet below surface with levels at 150-foot intervals down to 4,525 feet. Drifting totalling 63,996 feet and crosscutting 24,567 feet. Surface diamond drilling totalled 80,379 feet and underground drilling 126,869 feet. A mill with 100-ton capacity was constructed and later enlarged to 140 tons per day. Work by Leitch Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1936-65	847,291	31,775	30,500,485	920,745	5,947,889

(ODM Statistical Files, Leitch Gold Mines Ltd.).

1966-68	399	27	15,098	-	-

(ODM Statistical Files, Leitch, clean up by G. Caverley).
1942-43: 64.3 tons of scheelite averaging 3.95% WO_3 (ODM 1944, Vol. 53, pt.1, p.123).

References: ODM 1936, Vol. 45, pt.2, p.101-105
ODM 1965, Vol. 75, p.37-39
ODM 1967, Map P.484, Leitch Gold Mines Ltd.
Canadian Mines Handbook 1969-70, p.210.

Sand River Mine (Past Producer)

Main Metals: Au, Ag, W.

Location: Eva Township, east-central part, 1-1/4 mile S of Eva Lake and 3-1/2 miles NW of Beardmore. Shaft on claim TB12944.
Map Reference: ODM Map P.484, Leitch Gold Mines Ltd.

Geology: Greywacke strike N85°W, dip 80°N has been cut by a few dikes of diorite and diabase. A nearly horizontal diabase sheet was intersected in the shaft between 1,600 and 2,220 feet. The Sand River vein follows a shear zone in greywacke, strikes N60°-70°E, averages 12 inches in width and has been developed over a length of 3,000 feet above the diabase sheet. Recovery of gold averaged 0.32 ounces per ton of ore milled.

Ownership: Leitch Gold Mines Ltd.

History: 1935-41: Shaft sunk to 1,180 feet depth, levels at 150, 275, 400, 525, 650, 775, 900, 1,025, and 1,150 feet on which 16,782 feet of drifting and 996 feet of crosscutting were done. Diamond drilling included 33 surface holes totalling 6,097 feet and 5,200 feet of underground drilling. A 75-ton cyanide mill constructed. Work by Sand River Gold Mining Co. Ltd.
1941-42: Shaft continued to 1,486 feet, additional levels at 1,300 and 1,450 feet and a winze sunk 50 feet from 1,150-foot level. Drifting totalled 3,742 feet and crosscutting 790 feet. Underground diamond drilling totalled 1,403 feet. Work by Northern Empire Mining Co. Ltd.
1945-48: Shaft continued to 2,656 feet with additional levels at 1,835, 2,300, 2,460, and 2,610 feet. Drifting totalled 2,394 feet and crosscutting 951 feet. Diamond drilling of 8 underground holes totalled 1,610 feet. Work by Undersill Gold Mining Co. Ltd.
1954 and later: Development by Leitch Gold Mines Ltd. from its underground workings at Leitch Mine.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1937-42	50,065	3,628	1,863,840	157,870

(ODM Statistical Files, Sand River Gold Mining Co. Ltd.).

In addition some scheelite in 1942 (ODM 1943, Vol. 52, pt.1, p.181).

References: ODM 1936, Vol. 45, pt.2, p.109-112
ODM 1942, Vol. 51, pt.1, p.191
ODM 1946, Vol. 55, pt.2, p.75-77
ODM 1949, Vol. 58, pt.2, p.79-80
Canadian Mines Handbook 1955, p.329.

FULFORD TOWNSHIP

Maylac Mine (Past Producer)

Main Metals: Au, Ag.

Location: Fulford Township, SE part, 1/2 mile south of Hutchison Lake. Shaft on TB14229.
Map Reference: ODM Map 2102, Tashota-Geraldton Sheet.

Geology: Mafic and intermediate metavolcanics intruded by a north-trending diabase dike are cut by shear zones occupied by auriferous veinlets. No. 1 zone strikes east-west, dips 70-75°S and is from 4 to 5 feet wide. Associated minerals include pyrite, galena and sphalerite. Recovery of gold averaged 0.52 ounces per ton of ore milled.

Ownership: Gulch Mines Ltd.

History: 1935-39: Shaft sunk to 250 feet, levels at 125 and 250 feet on which 2,069 feet of drifting and 1,192 feet of crosscutting were done. Diamond drilling totalled 6,971 feet from surface and 378 feet from underground. Work by Hutchison Lake Gold Mines Ltd., but most of the surface drilling in 1939 done by Howey Gold Mines Ltd. under financial arrangement.
1946-47: Shaft continued to 450 feet, additional levels at 325 and 425 feet on which 169 feet of drifting and 166 feet of crosscutting were done. Diamond drilling underground of 33 holes totalling 2,574 feet. Work by Maylac Gold Mines Ltd.
1958: Drifting and crosscutting totalling 402 feet and 13 underground diamond drill holes totalling 1,892 feet. Work by Gulch Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1946-47	792	46	28,079	1,518

(ODM Statistical Files, Maylac Gold Mines Ltd.).

References: ODM 1937, Vol. 46, pt.1, p.150-151; pt.3, p.22
ODM 1940, Vol. 49, pt.1, p.133
ODM 1941, Vol. 50, pt.3, p.14-17
ODM 1948, Vol. 57, pt.2, p.70
ODM 1959, Vol. 68, pt.2, p.22
Canadian Mines Handbook 1969-70, Gulch Mines Ltd., p.163.

GORHAM TOWNSHIP

Thunderhead Prospect

Main Metals: Au, Ag, Cu, Ni.

Location: Gorham Township, concession 2, parts of lot 10 and 11.
Map Reference: ODM Map 48c, Gorham Township and Vicinity.

Geology: Mafic and felsic metavolcanics cut by mafic intrusives and auriferous stringers. No. 1 vein is 515 feet long and strikes east, a sample assayed 1.70 ounces of gold and 1.28 ounces of silver per ton. Southwest of the auriferous stringers copper and nickel sulphides occur associated with mafic intrusives.

Ownership: Thunderhead Gold Mines Ltd.

History: 1945-46: Diamond drilling of 12 surface holes totalling 1,888 feet by Macassa Gold Mines Ltd.
1946, 1961-62: Magnetic survey and diamond drilling of 5 surface holes totalling 2,072 feet. During 1961-62 additional diamond drilling and an adit driven 263 feet. Work by Thunderhead Gold Mines Ltd.

References: ODM 1939, Vol. 48, pt.3
Canadian Mines Handbook 1963, p.283
Canadian Mines Handbook 1969-70, p.349-350
Mineral Resources Branch File, Thunderhead.

HAINES TOWNSHIP

Ray Smith Prospect

Main Metals: Au, Ag, Cu, Zn.

Location: Haines Township, NE part, E of Postans Lake and W of Kabaigon Bay of Middle Shebandowan Lake.
Map Reference: ODM Map 2128, Kashabowie Sheet.

Geology: Felsic and mafic metavolcanics cut by felsic and mafic intrusives. Ore zones south of East Divide Lake, one of which strikes N55°-60°W, probably all within metavolcanics gave assay results as follows: gold, trace to 2.00 oz./ton over 5.1 feet; silver, 0.48 oz./ton; copper 0.38% to 0.55% and zinc 0.44% to 1.68%.

History: 1954-55: Diamond drilling of 16 holes totalling 1,910 feet by R.L. Smith.
1955: Ground electromagnetic survey and 5 diamond drill holes totalling 1,324 feet. Work by Consolidated Mining and Smelting Co. of Canada.
1957: Magnetometer and self-potential survey by Romar Mines Ltd.
1959: Diamond drilling of 2 holes totalling 550 feet by unrecorded operator.
1960: Diamond drilling of 6 holes by Realm Mining Corporation Ltd.
- : Diamond drilling of 12 holes totalling 2,312 feet by Tabor Lake Gold Mines Ltd.

References: ODM 1968, GR53, p.28-29

IRWIN TOWNSHIP

Brengold Mine (Past Producer)

Main Metals: Au.

Location: Irwin Township, NE part, predominantly S of Namewaminikan (Sturgeon) River and 1-1/4 miles N of McCambly Lake. Shaft on boundary between TB13566 and TB13563.
Map Reference: ODM Map P.481, Irwin Township.

Geology: Intermediate to felsic metavolcanics and porphyry are cut by auriferous veins with a predominantly easterly trend. Vein No. 2 up to 4 feet wide strikes E changing to S at its easterly end, and No. 7 vein maximum width of 2-1/2 feet, strike N75°E, dip 80°S, have been developed. Gold is associated with sulphides.

Ownership: Brenbar Mines Ltd.

History: 1934: Discovered by Brennan and Kenty Bros. Prospecting Co. Ltd.
1934-35: Stripping and trenching. Surface diamond drilling totalled 2,604 feet in 16 holes. Shaft sunk to 225 feet, levels at 125 and 200 feet on which approximately 210 feet of crosscutting and 215 feet of drifting were done. Work by Casey Contact Gold Mines Ltd.
1936-37: Drifting totalling 909 feet and crosscutting 632 feet. Diamond drilling of 3 surface holes totalling 1,206 feet and 6 underground holes totalling 1,001 feet. Work by Brengold Mines Ltd.
1946, 1949: Workings dewatered and sampled by Brenbar Mines Ltd.

Production:

Years	Gold ounces	Total Values dollars	Ore Milled tons
1941, 1949	134	5,160	46*

(ODM Statistical Files, Brenbar Mines Ltd. (1945); Brengold Mines Ltd.).
* Only recorded for 1949.

References: ODM 1936, Vol. 45, pt.2, p.92-97
ODM 1937, Vol. 46, pt.1, p.106
ODM 1938, Vol. 47, pt.1, p.94
ODM 1950, Vol. 59, pt.2, p.8
Canadian Mines Handbook 1969-70, p.54.

Brookbank Prospect

Main Metals: Au.

Location: Irwin Township, central part; N of Windigokan Lake and E of Knox Lake.
Map Reference: ODM Map P.481, Irwin Township.

Geology: Mafic metavolcanics are cut by a 1,300-foot long shear zone, strike N70°E, dip 50°S to 70°N; a grab sample assayed 0.05 ounces of gold per ton.

Ownership: Brookbank Sturgeon Mines Ltd.

History: 1934-35: Extensive surface exploration and diamond drilling by Connell Mining and Exploration Co. Ltd.. and Noranda Mines Ltd. under option.

References: ODM 1936, Vol. 45, pt.2, p.97-98
Survey of Mines 1970, p.129
Mineral Resources Branch File, Brookbank.

Knox Lake Prospect

Main Metals: Au.

Location: Irwin Township, central part, S of Knox Lake and W of Brookbank Prospect.
Map Reference: ODM Map P.481, Irwin Township.
ODM Map 45a, Sturgeon River Gold Area.

Geology: Metavolcanics and metasediments cut by veins. Drilling indicated a 150-foot long zone averaging 0.34 ounces of gold per ton over a width of 4 feet.

History: Circa 1935: Considerable stripping and trenching by K.L. Exploration Co. Ltd.
Circa 1944: More than 7,000 feet of diamond drilling by Cherbourg Gold Mines Ltd.

References: ODM 1936, Vol. 45, pt.2, p.99-100
Mineral Resources Branch File, Coleman (Knox Lake) Group.

Macjoe Sturgeon Prospect

Main Metals: Au.

Location: Irwin Township, NE part extending into Pifher Township, east of Brengold Mine.
Map Reference: ODM Map 45a, Sturgeon River Gold Area.

Geology: Metavolcanics intruded by granodiorite, both cut by dikes and veins. Nos. 21, 23, 24 and 25 veins all striking northeast were extensively explored. The latter is the most important, averages 10 inches in width, extends over 1,000 feet, and locally contains gold associated with sulphides.

Ownership: The Coniagas Mines Ltd. excluding claims TB13931 to TB13933.

History: 1934: Staked for the Jomac Gold Syndicate Ltd.
1935: Diamond drilling of 30 holes totalling 5,000 feet by Macjoe Sturgeon Gold Mines Ltd.

References: ODM 1936, Vol. 45, pt.2, p.106-108
Survey of Mines 1970, p.84
Mineral Resources Branch File, Sturgeon River.

Sturgeon River Mine (Past Producer)

Main Metals: Au, Ag.

Locations: Irwin Township, NE corner extending into adjacent townships. Shaft on TB13642.
Map Reference: ODM Map P.481, Irwin Township.

Geology: Intermediate to felsic metavolcanics cut by felsic intrusives, both cut by lamprophyre dikes and all cut by auriferous veins. No. 3 vein up to 3 feet wide strikes N13°E and dips 70°W, although underground some parts dip east. Recovery of gold averaged 0.51 ounces per ton of ore milled.

Economic Features: Reserves at June 1st, 1941 were estimated at 111,000 tons averaging 0.35 ounces of gold per ton (Canadian Mines Handbook 1942, p.174), the following year the mine closed down because of rising costs and scarcity of labour.

Ownership: The Coniagas Mines Ltd.

History: 1935-42: Shaft sunk to 2,108 feet, levels at 125, 250, 375, 500, 625, 750, 875, 1,000, 1,125, 1,250, 1,415, 1,580, 1,750 and 2,080 feet. Drifting totalled 18,700 feet and crosscutting 2,679 feet. Diamond drilling from more than 4 surface holes totalled 6,675 feet and from more than 69 underground holes 8,718 feet. A 30-ton amalgamation mill was installed but was later replaced by a 50-ton cyanide mill which was increased to 90 t.p.d. Work by Sturgeon River Gold Mines Ltd.

Production:	Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
	1936-42	73,438	15,922	2,728,905	145,123	219,981

(ODM Statistical Files, Sturgeon River Gold Mines Ltd.).

References: ODM 1936, Vol. 45, pt.2, p.36-45
ODM 1943, Vol. 52, pt.1, p.182-184
Survey of Mines 1970, p.84
Mineral Resources Branch Files, Sturgeon River.

JUTTEN TOWNSHIP

Northern Canada Prospect

Main Metals: Au, Ag.

Location: Jutten Township, northeast part, 65 miles northeast of Sioux Lookout to the south of Savant Lake.
Map Reference: ODM Map 2169, Sioux Lookout-Armstrong Sheet.

Geology: Pre-Kenoran mafic metavolcanics cut by a vein which assayed 0.27 ounces of gold and 0.60 ounces of silver per ton over a width of 74 feet and a length of 120 feet. The width and grade of the vein diminished with depth.

History: 1948: Trenching and 20 diamond drill holes totalling 2,400 feet by Northern Canada Mines Ltd.

References: Mineral Resources Branch File, Jutten.

LEDUC TOWNSHIP

Oremond Prospect

Main Metals: Au.

Location: Leduc Township, southwest part, extending into Walters Township. 25 claims approximately 30 miles southwest of Geraldton, between Nissiamkikam and Osaline Lakes. Shaft on claim TB11800 (at present

covered by TB222656 and TB222661).
Map Reference: ODM Map 2102, Tashota-Geraldton Sheet.

Geology: Pre-Kenoran metasediments include a band of fractured iron formation, strike N70°E, shallow dip north. The fractures have been filled with quartz, calcite and sulphides. A zone 150 feet long and 7 feet wide gave assays averaging 0.34 ounces of gold per ton.

History: 1936-37: A shaft sunk 300 feet with levels at 150 and 275 feet on which 584 feet of drifting and 392 feet of crosscutting were done. Some diamond drilling. Work by Oremond Gold Mines Ltd.

References: ODM 1936, Vol. 45, pt.2, p.57-58
ODM 1937, Vol. 46, pt.1, p.187-188.

LINDSLEY TOWNSHIP

Tombill Mine (Past Producer)

Main Metals: Au, Ag.

Location: Lindsley Township, east-central part, 1/4 mile NW of Bankfield and 6-1/2 miles SW of Geraldton. Shaft on claim TB10645.
Map Reference: ODM 2102, Tashota-Geraldton Sheet.

Geology: Metasediments and felsic intrusives along the sheared and fractured contact of which ore zones have developed. Associated minerals are pyrite, arsenopyrite and pyrrhotite. Recovery of gold averaged 0.36 ounces per ton of ore milled.

Ownership: Tombill Mines Ltd.

History: 1935-42: Shaft sunk 630 feet, levels at 215, 400 and 600 feet on which 3,762 feet of drifting and 4,442 feet of crosscutting was done. Diamond drilling comprised more than 12 surface holes totalling 15,570 feet and 63 underground holes totalling 4,406 feet. A mill with capacity of 100 tons erected, later increased to 150 tons. Work by Tombill Gold Mines Ltd.
1940: An agreement allowing Bankfield Consolidated Mines Ltd. to explore and develop a block below the 500-foot level was arranged.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1938-42, 1955	69,120	8,595	2,590,766	190,622	454,000

(ODM Statistical Files, Tombill Gold Mines Ltd.).

References: ODM 1941, Vol. 50, pt.1, p.5-6
ODM 1943, Vol. 52, pt.1, p.192
CIM 1948, Jubilee Vol., pt.4, p.401-406.
Canadian Mines Handbook 1969-70, Tombill Mines Ltd., p.222.

McCOMBER TOWNSHIP

Longbeard Prospect

Main Metals: Au.

Location: Northeast of Beardmore to McComber Township, west-central part.
Map Reference: ODM Map 2102, Tashota-Geraldton Sheet.

Geology: Mafic and intermediate metavolcanics.

Economic Features: Gold values obtained by assay were 0.3 ounces over 1 foot, 0.25 ounces over 2 feet and 0.15 ounces over 6.5 feet.

History: 1938: Surface work and diamond drilling. Work by Longbeard Gold Mines Syndicate Ltd.
1946-47: Surface work and approximately 2,500 feet of diamond drilling. Work by Nulac Mines Ltd.

References: Canadian Mines Handbook 1938, p.165
Canadian Mines Handbook 1947, p.228
Mineral Resources Branch File, Ralph Lake.

MOSS TOWNSHIP

Kerry Mine (Past Producer)

Main Metals: Au, Ag.

Location: Moss Township, central part, approximately 70 miles northwest of Thunder Bay and 1 mile southwest of Moss Lake. Three shafts on location H1.
Map Reference: ODM Map 2065, Atikokan-Lakehead Sheet.

Geology: Pre-Kenoran mafic to intermediate metavolcanics are cut by a northeast-trending feldspar porphyry dike and an auriferous quartz vein, both traced over 3,000 feet. Gold assays were erratic, the highest was 4.66 ounces from a 9-inch wide vein section. Recovery of gold averaged 0.21 ounces per ton of ore milled.

History: 1871: Discovered by Peter McKellar.
1871-74: Surface work by Messrs. N. White, Frue and Sibley.
1874-82: Surface work by The Jackfish Lake Mining Co. Ltd.
1882-85: Sinking of 2 shafts, No. 1 to 125 feet with levels at 55 and 110 feet on which approximately 150 feet of drifting were done, and No. 2 to 60 feet. Construction of a 10-stamp mill. Work by The Huronian Mining Co. of Ontario.
1925-26: Dewatering and establishment of a level at 125 feet in the Huronian No. 1 shaft. Work by Shield Develipment Co. Ltd.
1927-30: Moss No. 1 shaft, formerly Huronian No. 1 shaft, 1,500 feet of lateral work on the 125-foot level. A third shaft Moss No. 2 sunk vertically 400 feet with levels at 125, 250 and 375 feet on which 6,163 feet of crosscutting and drifting were done. Work by Moss Mines Ltd.
1931-33: Moss No. 2 shaft continued to 775 feet with additional levels at 500, 625 and 750 feet. Drifting totalled 6,354 feet and crosscutting 372 feet. Diamond drilling totalled 2,244 feet. A 200-ton cyanide mill was constructed. Work by Moss Gold Mines Ltd.
1934-36: Moss No. 2 shaft continued to 1,277 feet with additional levels at 875, 1,000, 1,125 and 1,250 feet and an inclined winze sunk 175 feet from the 1,000-foot level with levels at 1,160 and 1,125 feet. Drifting totalled 4,308 feet and crosscutting 1,038 feet. Diamond drilling totalled 3,871 feet. Work by Ardeen Gold Mines Ltd.
1942: Clean-up work by Kerry Gold Mines Ltd.
1957: Geological and electromagnetic survey. Diamond drilling of 5 inclined holes totalled 1,014 feet. Work by Noranda Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1932-36, 1942	29,948	172,376	962,326	143,724

(ODM Statistical Files, Kerry Gold Mines Ltd. 1937, Ardeen Gold Mines Ltd. 1933, Moss Gold Mines. Huronian).

References: OBM 1895, Vol. 5, p.121-125
ODM 1928, Vol. 37, pt.1, p.131-133; pt.4, p.109-127
ODM 1930, Vol. 39, pt.1, p.119-120
ODM 1932, Vol. 41, pt.1, p.85-86
ODM 1937, Vol. 46, pt.1, p.96-97
ODM 1968, Open File Rept. 5020, p.68-80.

Lobanor Prospect

Main Metals: Au.

Location: Southeastern part of Moss Township, east of Moss Lake and 400 feet north of Snodgrass Lake, conc. 3 and 4, lots 5, 6, and 7.
Map Reference: ODM Map P.451, Moss Lake Area (North Part)

Geology: Pre-Kenoran felsic to intermediate metavolcanics enclose mafic intrusives and three east-striking mineralized zones. The Middle Zone is occupied by a 25-foot wide syenite dike. The South Zone is 1,100 feet long and averaged from 0.06 ounces of gold per ton across 13.9 feet to 0.16 ounces of gold per ton across 17.5 feet; Middle Zone gave erratic gold values; North Zone, two intersections returned 0.27 ounces of gold per ton across 1.0 feet, and 0.24 ounces of gold per ton across 2.5 feet.

History: 1936: Trenching by Mining Corporation Ltd.
1945-46: Diamond drilling of 12 surface holes totalling 4,105 feet.
Work by Lobanor Gold Mines Ltd.

References: ODM 1968, Open File Rept. 5020, p.85-89
Mineral Resources Branch File, Rexdale (Minoletti).

PIFHER TOWNSHIP

Chellew Prospect

Main Metals: Au.

Location: Pifher Township, central part, 15 claims situated 15 miles northeast of Beardmore and southeast of Pifher Lake. Diamond drilling on claims TB34902 and TB81747.
Map Reference: ODM Map 2102, Tashota-Geraldton Sheet.

Geology: Pre-Kenoran mafic and felsic metavolcanics are cut by mafic intrusives and sulphide rich mineral zones. Trench samples indicated as much as 2.52 ounces of gold per ton across 4.6 feet over a length of 68 feet. The best drill hole intersection averaged 1.58 ounces of gold per ton over 7.4 feet.

History: 1946: Discovered by the Neil Prospecting Syndicate.
1947-57: Surface trenching and diamond drilling; in 1957 one hole was drilled 302 feet deep. Work by Green Lake Gold Mines Ltd.
1958-60: Twenty-two diamond drill holes totalling 6,366 feet were drilled by Boyles Bros. for Chellew Mines Ltd.

References: Survey of Mines 1948, p.236
The Northern Miner, May 15, 1958, Vol. 44, p.14
Mineral Resources Branch File, Chellew
Assessment Work Library, Toronto, Pifher Township Rept. 14 and 15.

Greenoaks Prospect

Main Metals: Au.

Location: Pifher Township, northeast part extending into Elmhirst Township, 15 claims, approximately 40 miles northwest of Geraldton and 4 miles east of Pifher Lake. Diamond drilling on claims TB35563, 35567, 35572, 35573. Map Reference: ODM Map 2102, Tashota-Geraldton Sheet.

Geology: Pre-Kenoran mafic and intermediate metavolcanics adjacent to a felsic batholith are cut by diabase, porphyry and lamprophyre dikes, and mineralized zones. The latter do not generally contain high gold values, although a 135-foot long lens averaged 0.86 ounces of gold per ton over an average core length of 5.2 feet.

Ownership: Greenoaks Mines Ltd.

History: 1947: Twenty-two diamond drill holes totalling 1,472 feet by unrecorded operator.
1953: Geophysical and geological survey by Geo-Technical Development Co. Ltd. Three diamond drill holes totalling 1,667 feet by Continental Diamond Drilling and Exploration Co. Ltd., and Greenoaks Mines Ltd.
1960: Diamond drilling totalling 1,000 feet by Greenoaks Mines Ltd.

References: Assessment Work Library, Toronto, Elmhirst Township Rept. 4-5-5; Pifher Township Rept. 10, 12, 63390.
Mineral Resources Branch File, Greenoaks.

Maloney Sturgeon Prospect

Main Metals: Au.

Location: Pifher Township, SW part, E of Peddle Lame and N of Taylor-Segsworth Occurrence.
Map Reference: ODM Map 45a, Sturgeon River Gold Area.

Geology: Metavolcanics cut by felsic intrusives enclose a quartz lense maximum width 7 feet, strike N50°W, dip 70°S, containing gold associated with sulphides. Strong gold mineralization occurred over a length of about 20 feet.

History: Circa 1934: Discovered by R. Maloney.
1934-35: Pitting and prospecting by Maloney Sturgeon Gold Mines Ltd.

Production:

Year	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1937	73	16	2,549	1

(ODM Statistical Files, Maloney Sturgeon Gold Mines Ltd.).

References: ODM 1936, Vol. 45, pt.2, p.108-109.

RICKABY TOWNSHIP

Orphan Mine (Past Producer)

Main Metals: Au, Ag.

Location: Nine claims on the north shore of Atigogami Lake approximately 24 miles northwest of Geraldton in the northeast part of Rickaby Township. Shaft on claim TB11071.
Map Reference: ODM Map 2102, Tashota-Geraldton Sheet.

Geology: Pre-Kenoran felsic and intermediate metavolcanics are intruded by Kenoran granite. The contact is traversed by an auriferous quartz lense, strike N40°W and dip nearly vertical. Highest gold values were found where the wall rock is lava and diminished rapidly towards the granite. Recovery of gold averaged 0.70 ounces per ton of ore milled.

History: 1931: Discovered by T.W. Johnson.
1933-34: Surface work, cutting and a shaft sunk 160 feet with a level at 150 feet. Work by Dikdik Exploration Co. Ltd.
1934-35: Shaft continued to 262 feet and an additional level established at 250 feet. Drifting totalling 578 feet and crosscutting 85 feet. A 20-ton mill installed. Work by J. Bruce McMartin.
1936-37: Workings dewatered by Sarmac Gold Mining Corporation.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1934-35	2,460	1,558	86,756	3,525

(ODM Statistical Files, McMartin, J. Bruce; Dikdik Exploration Co. Ltd.).

References: ODM 1934, Vol. 43, pt.1, p.67
ODM 1935, Vol. 44, pt.1, p.123
ODM 1936, Vol. 45, pt.2, p.48-56
ODM 1937, Vol. 46, pt.1, p.199.

SUMMERS TOWNSHIP

Beardmore Mine (Past Producer)

Main Metals: Au, Ag.

Location: Summers Township, SE part, 1 mile NE of Beardmore. Shaft on claim TB4803.
Map Reference: ODM Map P.602, Summers Township.

Geology: Mafic to intermediate metavolcanics enclose the 'Power' vein, strike N72°E, dip 80°S, composed of lenticular bodies and averaging 2 feet in width. Between the depths of approx. 650 and 1,200 feet the vein is cut by a gently dipping diabase sill without being displaced, but is below ore grade for 100 feet on both sides of the sill. The recovery of gold averaged 0.35 ounces per ton of ore milled.

Ownership: Regan, J.E., and Lauber, R.C.

History: 1926-30: Shaft No. 1 sunk to 45 feet and No. 2 to 200 feet, levels at 75 and 150 feet on which approximately 480 feet of drifting and 250 feet of crosscutting were done. Diamond drilling performed. Work by Beardmore Gold Mines Ltd.
1931: Lateral development of 138 feet on No. 2 shaft by Beardmore Gold Mines Co. Ltd. Diamond drilling by La Rose Rouyn Mines Ltd.
1932-41: No. 2 shaft continued to 2,460 feet, levels at 300, 400, 600, 750, 1,400, 1,560, 1,725, 1,900, 2,075, and 2,425 feet and a sub-level at 700 feet. An 18° inclined shaft sunk from surface to 75-foot level and a winze from the 750- to 1,400-foot level. Drifting totalled 33,276 feet and crosscutting 6,220 feet. Diamond drilling totalled 5,842 feet. Mill constructed with capacity of 125 tons per day, later increased to 150 tons per day. Work by Northern Empire Mines Co. Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons	Dividends dollars
1934-41, 1949	149,493	19,803	5,380,514	425,866	1,868,000

(ODM Statistical Files, Northern Empire Mines Co. Ltd.).

References: ODM 1928, Vol. 37, pt.4, p.105
ODM 1929, Vol. 38, pt.1, p.87
ODM 1932, Vol. 41, pt.1, p.66
ODM 1942, Vol. 51, pt.1, p.166-167
CIM 1948, Jubilee Vol., pt.4, p.389-399.

Spooner Prospect

Main Metals: Au.

Location: Summers Township, SE part, 2 miles E of Beardmore, surrounding Pauline Lake. Shaft on TB4815.
Map Reference: ODM Map P.602, Summers Township.

Geology: An easterly-trending belt of metavolcanics contains quartz veins striking about N75°E and has been cut by a westward-dipping sheet of diabase. A vein exposed underground is reported to contain 0.43 ounces of gold per ton across a width of 20 inches.

Ownership: H.T. Leslie.

History: Circa 1925: Considerable amount of stripping and trenching probably by F. Spooner.
1935-38: Shaft sunk 40 feet and abandoned. A new shaft inclined S80° sunk on TB4815 to 303-feet, level at 150 feet on which approximately 1,000 feet of drifting and 10 feet of crosscutting were done. Diamond drilling from more than 7 surface holes totalled 7,356 feet, and total underground work was 516 feet. Work by Spooner Gold Mines Ltd.
1939-41: Drifting totalling 806 feet and crosscutting 1,100 feet by Northern Empire Mines Co. Ltd. from their 1,725-foot level.

References: ODM 1928, Vol. 37, pt.4, p.105
ODM 1942, Vol. 51, pt.1, p.165-166
Mineral Resources Branch File, Spooner (Norex) Property.

TOWNSHIP 73

Lake Superior Prospect

Main Metals: Au.

Location: Township 73, north-central part, approximately 24 miles east of Marathon, straddling Highway 17. Drilling on claims TB32160, 32161, 33998.
Map Reference: ODM Map P.494, Manitouwadge Sheet.

Geology: Pre-Kenoran metasediments are cut by mafic intrusives and mineralized zones.

Economic Features: It has been estimated that there is 89,000 tons of material averaging 0.27 ounces of gold per ton (Canadian Mines Handbook 1960, p.139).

History: 1949-50: Surface work and approximately 6,000 feet of drilling by Lake Superior Mining Corporation Ltd.
1951: At least six diamond drill holes totalling 2,733 feet. Work by Teck Exploration Co. Ltd.
1959: Additional diamond drilling completed by unrecorded operator, although possibly done by Lake Superior Mining Corporation Ltd.

References: Canadian Mines Handbook 1950, p.114
Canadian Mines Handbook 1955, p.114
Canadian Mines Handbook 1959, p.125
Canadian Mines Handbook 1960, p.139
Assessment Work Library, Toronto, Township 73 Rept. 49, 369, 370.

TOWNSHIP 84

Harkness-Hays Mine (Past Producer)

Main Metals: Au, Ag.

Location: 2 miles east of Schreiber on main line of Canadian Pacific Railway, Township 84, south-central part. Adits on claims TB3327 and TB3354.
Map Reference: ODM Map 2137, Nipigon-Schreiber.

Geology: Pre-Kenoran mafic metavolcanics are cut by quartz veins. The main vein traceable over 300 feet strikes N30°E and dips 80°NW, and contains gold associated with sulphides. Recovery of gold averaged 2.49 ounces per ton of ore milled.

History: - : Pitting, bulk samples. Work by W.S. Jackson.
1925-34: Surface work, 3 adits with 1,270 feet development. Work by Harkness-Hays Gold Mining Company Limited.
1934-36: 2 adits, 335 feet development work, a 25-ton mill constructed. Work by Harkness-Hays Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1920,1929 1932, 1935-36	194	75	5,879	78

(ODM Statistical Files, Harkness-Hays, W.S. Jackson).

References: ODM 1921, Vol. 30, pt.4, p.14-16
ODM 1935, Vol. 44, pt.1, p.99
ODM 1938, Vol. 47, pt.9, p.23.

North Shores Mine (Past Producer)

Main Metals Au, Ag.

Location: Township 84, southwest part, approximately 40 miles west of Marathon, south of Schreiber and west of Worthington Bay of Lake Superior. Adits on claim RJ122.
Map Reference: ODM Map 47j, Schreiber Area.

Geology: Pre-Kenoran mafic to felsic metavolcanics are cut by felsic and mafic intrusives. The largest area of felsic intrusives is cut by a northwesterly-trending diabase dike, and an auriferous vein, strike N80°W and dip 50-55°S, which intersect each other. A vein sample assayed approximately 2 ounces of gold over eighteen inches. Recovery of gold averaged about 0.64 ounces per ton of ore milled.

History: 1898-1900: Adit driven 60 feet by unknown operator.
1920-22: Adit extended to 85 feet, crosscutting totalling 89 feet and a winze sunk 15 feet. Two shallow shafts. Work by P. McKellar and W.L. Longworth.
1923-31: A new adit, known as 1st level driven 180 feet, probably by Schreiber Gold Mines Ltd.
1932-33: First level continued to 500 feet by R.N. Palmer and associates.
1933-35: First level continued to 900 feet and a 130-foot winze, inclined 27° sunk from it, from which a sub-level driven 260 feet. Beneath the first level, a second level adit driven 440 feet. Three additional adits were started of which the Crosscut level was cut 370 feet and the No. 11 vein adit 75 feet. Four diamond drill holes totalled 2,000 feet. A 25-ton mill erected. Work by North Shores Gold Mines Ltd.
1935-37: First level continued to 1,023 feet, sub-level to 355 feet, second level to 569 feet and Crosscut level to 480 feet. A winze inclined 75° was sunk 95 feet from the second level. An additional adit was driven 950 feet. Work by North Shores Mines (1936) Ltd.
1936: Diamond drilling by P.A.L. Exploration Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1923,1929 1932-33, 1935-37, 1941	2,441	226	73,716	3,808

(ODM Statistical Files, North Shore Mines (1936) Ltd., North Shore Gold Mines Ltd. (1933), Schreiber Gold Mines Ltd., McKellar-Longworth).

References: OBM 1901, Vol. 10, p.88
ODM 1922, Vol. 31, pt.10, p.16
ODM 1933, Vol. 42, pt.1, p.87
ODM 1935, Vol. 44, pt.1, p.129-130
ODM 1936, Vol. 45, pt.1, p.144
ODM 1938, Vol. 47, pt.9, p.18-21.

48°00' - 85°15'

Amichi Prospect

Main Metals: Au.

Location: NTS 42/C/03/W, Lat. 48°00'N, Long. 85°15'W, approximately 30 miles west of Wawa, 36 claims north of Mishi Lake.
Map Reference: ODM Map 49j, Mishibishu Lake Area.

Geology: Quartz veins in schistose metavolcanics contain gold with pyrite, chalcopyrite, and galena.

Economic Features: Average gold value was reported as 0.30 ounces of gold per ton over a 5-foot vein traced 2,000 feet (Survey of Mines, 1952, p.216).

History: 1938: Trenching, stripping, diamond drilling. Work by Hollinger Consolidated Gold Mines Ltd.
1948-51: Geological survey, stripping, trenching, 15 inclined drill holes totalling 3,733 feet. Work by Amichi Gold Mines Ltd.

References: ODM 1940, Vol. 49, pt.9, p.12
ODM 1969, Map P.507, Marginal Notes
Assessment Work Library, Toronto, Mishibishu Lake Area Rept. 6-2-623.

Bishu Prospect

Main Metals: Au, Cu, Zn.

Location: NTS 42/C/03/W, Lat. 48°00'N, Long. 85°15'W, approximately 30 miles west of Wawa, 21 claims north of the western part of Mishibishu Lake.
Map Reference: ODM Map P.541, Operation Pukaskwa (the property is shown by symbol 16, Macassa Gold Mines Ltd.

Geology: Pre-Kenoran metasediments enclose intermediate to felsic intrusives and auriferous veins and lenses.

Ownership: Magnacon Mines and Oils Ltd.

History: Circa 1934: Prospecting in this area by Erie Canadian Mines Ltd.
1946-52: Surface work including trenching and geiger survey, and 10,000 feet of diamond drilling. Work by Bishu Mines Ltd.

References: ODM 1940, Vol. 49, pt.9, p.12, and map 49j
Canadian Mines Handbook 1946, p.40
Canadian Mines Handbook 1952, p.23
ODM Assessment Work Files, Sault Ste. Marie, SSM-609
ODM Granted Lands Branch, File TB700
Mineral Resources Branch File, Bishu Mines.

48°30' - 86°45'

South Slate Island Prospect

Main Metals: Au.

Location: NTS 42/D/10/W, Lat. 48°30'N, Long. 86°45'W, St. Mary's Bay,

South Slate Island, Lake Superior, 16 miles SE of Schreiber.
Map Reference: ODM Map P.360, Schreiber.

Geology: Mafic volcanics and diabase contain quartz veins in a shear zone 1/4 mile wide and 1/2 mile long. Samples from one vein assayed 0.75 ounces and 0.15 ounces gold per ton.

History: 1917: Exploration, sampling.
1962: Stripping, sampling by Slate Islands Mining Company.
1963: Diamond drilling of 20 holes totalling 6,593 feet by Upper Canada Mines Ltd., Junior Frood Mines Ltd., and Cadamet Mines Ltd.

References: OBM 1918, Vol. 27, pt.1, p.166
Mineral Resources Branch File, South Slate Island.

49°00' - 87°15'

Beaver Prospect

Main Metals: Au, Ag.

Location: NTS 42/E/03/W, Lat. 49°00', Long. 87°15', approximately 40 miles northwest of Marathon, 1 mile west of Big Duck Lake. Claim TB1686.
Map Reference: ODM Map 2023, Big Duck Lake Area.

Geology: Kenoran felsic intrusives enclose a 200-foot long calcite vein, both strike N80-85°E and dip 65-70°N. Recovery from 2,710 pounds of sorted ore averaged 2.0 ounces of gold and 3.9 ounces of silver per ton. A core sample assayed 0.89 ounces of gold and 0.53 ounces of silver per ton over 5.5 feet but the majority of samples gave only low values.

History: 1906: Discovered by J. Fisher.
1913-15: Sampling and shaft sunk 40 feet by D. McQuaig.
1957: At least two diamond drill holes by Kinasco Exploration and Mining Ltd.
1959: Four diamond drill holes by KRNO Mines Ltd.

References: ODM 1964, GR27, p.23.

Church Prospect

Main Metals: Au, Ag, Zn.

Location: NTS 42/E/03/W, Lat. 49°00', Long. 87°15', approximately 40 miles northwest of Marathon, 1-1/4 miles west of Big Duck Lake.
Map Reference: ODM Map 2023, Big Duck Lake Area.

Geology: Pre-Kenoran mafic metavolcanics enclose Kenoran felsic intrusives, and sulphide-rich mineral zones. The first of these strikes N20°W, dips 60°E, assayed 0.02 ounces of gold and 0.40 ounces of silver per ton, and appears to occupy a shear zone along the contact. Another to the south strikes N85°E, dips 65-75°N, assayed up to 0.25 ounces of gold per ton and 5.49 percent zinc. A third zone apparently unexposed at the surface assayed 0.38 ounces of gold per ton.

History: 1916: Staked by W. Longworth.
1957: At least 3 diamond drill holes totalling 222 feet. Work by Kinasco Exploration and Mining Co. Ltd.
1960: Additional diamond drilling by KRNO Mines Ltd. Detailed mapping by the Keevil Mining Group.

References: ODM 1964, GR27, p.25.

Coco-Estelle Prospect

Main Metals: Au, W.

Location: NTS 42/E/03/W, Lat. 49°00', Long. 87°15', approximately 40 miles northwest of Marathon, 1 mile west of Big Duck Lake. Claim TB2093. Map Reference: ODM Map 2023, Big Duck Lake Area.

Geology: Pre-Kenoran mafic metavolcanics are intruded by Kenoran felsics. Along or close to the contact is a 15- to 20-foot wide zone of metavolcanics cut by stringers, veins and lenses of quartz. It strikes N80-85°E and dips 65-70°N. Much of the gold is associated with the veins. Core samples assayed between 0.11 and 3.20 ounces of gold per ton, and more than 5% WO_3.

History: 1914: Trenching by August Estelle.
1946: Eight diamond drill holes by Sandenise Gold Mines Ltd.
1959-60: Twenty-two diamond drill holes totalling 5,144 feet. Work by KRNO Mines Ltd. September and October, 1960; diamond drilling and sampling by the Keevil Mining Group.

References: ODM 1964, GR27, p.28-30.

49°30' - 86°30'

Theresa Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 42/#/10/E, Lat. 49°30', Long. 86°30', on Making Ground River, approximately 6 miles south of Longlac. Shafts on TB16373 or TB17784,

TB15775 and TB16851.
Map Reference: ODM Map 2102, Tashota-Geraldton Sheet.

Geology: A quartz diorite mass and surrounding mafic to intermediate metavolcanics are cut by veins in shear zones; No. 1 vein strikes N40°E and No. 2 N85°E, dip 55°N. Recovery of gold averaged 0.18 ounces per ton of ore milled.

History: 1935-36: Work of unrecorded nature by Afton Mines Ltd.
1936-37: Shaft sinking; No. 1 to 135 feet with level at 125 feet on which 241 feet of drifting and 91 feet of crosscutting were done; No. 2 to 217 feet, levels at 125 and 200 feet on which 146 feet of drifting and 565 feet of crosscutting were done. Diamond drilling from the surface totalled 7,868 feet. Work by N.A. Timmins Corporation.
1938-53: Shaft No. 3 sunk to 986 feet, levels at 100, 227, 335, 482, 664, 814, 955 feet on which 1,979 feet of drifting and 8,137 feet of crosscutting were done. Diamond drilling included 268 underground holes totalling 73,075 feet, 20 surface holes totalling 6,779 feet and a further 55 unspecified holes totalling 12,704 feet. A 12-ton Gibson ball mill and 25-ton amalgamation unit were installed and later a 100-ton mill was constructed. Work by Theresa Gold Mines Ltd.
1962-64: More than 3,410 feet of diamond drilling from more than 9 holes by Newrich Exploration Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1935-38, 1941-43,1945, 1950-53,1955	4,785	202	167,722	26,120

(ODM Statistical Files, Theresa Gold Mines Ltd., Afton Mines Ltd., Caouette Claims).

References: ODM 1936, Vol. 45, pt.1, p.10
ODM 1937, Vol. 46, pt.3, p.18
ODM 1938, Vol. 47, pt.1, p.178
ODM 1954, Vol. 63, pt.2, p.96
Canadian Mines Handbook 1961, p.46
Canadian Mines Handbook 1964, p.207.

49°45' - 87°30'

Kenty Prospect

Main Metals: Au, Mo.

Location: NTS 42/E/13/E, Lat. 49°45', Long. 87°30', approximately 40 miles northwest of Geraldton, 3/4 mile south of the east end of Conglomerate Lake. Claims KK800 and KK831.

Map Reference: ODM Map 2102, Tashota-Geraldton Sheet.

Geology: Mafic metavolcanics are cut by mafic and felsic intrusives. Porphyritic varieties of the latter are associated with silicified shear zones containing gold and molybdenite, which assayed from 0.02 to 0.68 ounces of gold per ton.

History: 1924: Sampled by the Kenty brothers.
1951-52: Prospecting and geophysical survey by W. Langridge.
1955: Three diamond drill holes totalling 1,375 feet by Chontor Mining Corporation.
1960: Five diamond drill holes totalling 1,070 feet by Norsco Mines Ltd.
1961-62: Magnetometer and electromagnetic survey, and 26 diamond drill holes totalling 7,755 feet. Work by Jorsco Exploration Ltd.

References: ODM 1925, Vol. 34, pt.6, p.82
ODM 1938, Vol. 47, pt.8, p.20
Mineral Resources Branch File, Conglomerate Lake (Kenty North and South Showing).

50°00' - 90°30'

Dawson-White Prospect

Main Metals: Au.

Location: NTS 52/J/02/E, Lat. 50°00', Lont. 90°30', approximately 55 miles east of Sioux Lookout and 8 miles southeast of Savant Lake. Nine claims on the east shore of the North Arm of Sturgeon Lake. Shafts on TB6980.
Map Reference: ODM Map 39b, Sturgeon Lake.

Geology: Pre-Kenoran mafic metavolcanics, and metasediments are cut by Kenoran felsic intrusives and auriferous veins. The main vein is situated along the contact, is up to 4 feet wide, strikes north and dips 65°E. During the early part of the century it is reported to have yielded approximately $8,000 of gold (OBM 1902, Vol. 11, p.256).

History: 1900-01: Stripping, pitting and a shaft sunk 55 feet. A 10-stamp mill constructed. Work by Sturgeon Lake Mining Co.
1902-03: Shaft continued to a depth of 64 feet and a level established at 60 feet with some crosscutting. Work by The English River Gold Mining Co.
1937: A new shaft sunk 220 feet, levels at 100 and 200 feet on which 275 feet of drifting and 80 feet of crosscutting were done. Diamond drilling totalling 6,600 feet from 29 holes. Work by Dawson-White Gold Mines Ltd.

References: OBM 1902, Vol. 11, p.149
ODM 1938, Vol. 47, pt.1, p.111-112
Mineral Resources Branch Files, Dawson-White.

Richelieu Prospect

Main Metals: Au, Ag.

Location: NTS 52/J/02/E, Lat. 50°00', Long. 90°30', 55 miles east of Sioux Lookout and 10 miles southeast of Savant Lake. Fifteen claims about 4 miles northeast of St. Anthony Mine. A shaft on one of the claims.
Map Reference: ODM Map 2169, Sioux Lookout-Armstrong Sheet.

Geology: The deposit is recorded as two fissure veins, one of which underground on the 125-foot level averaged 2.8 feet in width and assayed about 0.5 ounces of gold per ton.

History: 1934-35: A shaft sunk 278 feet deep, levels at 125 and 250 feet on which 900 feet of drifting were done by Richelieu Gold Mines Ltd.
1960: Diamond drilling by Croomor Mines [Cromorr Mines Ltd.?]

References: ODM 1936, Vol. 45, pt.1, p.153-154
Mineral Resources Branch File, Richelieu Gold Mines.

St. Anthony Mine (Past Producer)

Main Metals: Au, Ag.

Location: NTS 52/J/02/E, Lat. 50°00', Long. 90°30', approximately 55 miles east of Sioux Lookout, 11 claims between Sturgeon and Couture Lake. Shafts on BG152.
Map Reference: ODM Map 2169, Sioux Lookout-Armstrong Sheet.

Geology: Pre-Kenoran mafic metavolcanics and metasediments are cut by Kenoran felsic intrusives. The main vein which is 1,100 feet long and up to 25 feet wide, strikes north and dips west, lies mainly within the metavolcanics but extends into the intrusives. Recovery of gold averaged 0.19 ounces per ton of ore milled.

Ownership: Con-Key Mines Ltd.

History: 1900-03: Pitting, trenching and shaft sinking, Nos. 2 and 3 to a depth of 100 feet with a level at that depth. Crosscutting from No. 2 shaft totalled 140 feet and from No. 3 shaft 110 feet; a small amount of drifting was done from both. A 10-stamp mill was constructed. Work by Jack Lake Gold Mining Co. Ltd.
1904-07: Drifting totalling 440 feet and crosscutting 65 feet. Work by St. Anthony Gold Mining Co. Ltd.
1907-12: Jack Lake No. 2 shaft deepened to 175 feet with a level at 150 feet, from which No. 1 winze was sunk 100 feet and a level established at 250 feet. Drifting totalling 1,500 feet and crosscutting 615 feet. Work by J. Steele, G. Glendinning, Sturgeon Lake Development Co., and probably Northern Gold Reef Ltd.

1915-16: Sampling by St. Anthony Development Co. Ltd., controlled by The Kerr Lake Mining Co. Ltd. and Wettlauffer-Lorrain Co.
1916-18: No. 1 winze continued to 350 feet and a level established from which No. 2 winze was sunk to 525 feet, with a level at 500 feet. Approximately 1,500 feet of drifting. Work by Thunder Mining Co. Ltd.
1920-21: Clean-up work by C.L. Campbell, C.P. Charlesbois and W.H. Fairburn.
1928-41: An inclined shaft to replace Jack Lake No. 2 was sunk to a vertical depth of 766 feet, shaft length 1,017 feet, and new levels established at 625 and 750 feet. No. 3 winze was sunk from the 750-foot level to a vertical depth of 1,010 feet below the surface with levels at 875 and 1,000 feet. Drifting exceeded 5,684 feet and crosscutting 1,504 feet. Diamond drilling from surface exceeded 23 holes and totalled 5,763 feet; underground drilling totalled 9,597 feet in 65 holes. A 125-ton mill was constructed. Work by St. Anthony Gold Mines Ltd.

Production:

Years	Gold ounces	Silver ounces	Total Value dollars	Ore Milled tons
1905-07,1911-13, 1917-18,1920-21, 1929-30,1934-41	63,310	16,341	2,165,292	331,069

(ODM Statistical Files, St. Anthony Gold Mines Ltd., Northern Gold Reef Ltd.).

References: OBM 1903, Vol. 12, p.82-84
OBM 1913, Vol. 22, pt.1, p.99
ODM 1930, Vol. 39, pt.2, p.45-48
ODM 1935, Vol. 44, pt.1, p.138-139
ODM 1942, Vol. 51, pt.1, p.188-191
Mineral Resources Branch File, St. Anthony Mine.

50°15' - 87°00'

Camdeck Prospect

Main Metals: Au.

Location: NTS 42/L/06/E, Lat. 50°15', Long. 87°00', approximately 50 miles north of Geraldton, 21 claims on Cryderman Peninsula of O'Sullivan Lake. Map Reference: ODM Map 1955-2, O'Sullivan Lake Area.

Geology: Pre-Kenoran mafic metavolcanics cut by a series of porphyry dikes up to 30 feet wide. Selected samples from stringers in the dikes assayed 0.14, 0.22 and 0.37 ounces of gold per ton.

History: 1946-53: Limited amounts of stripping and trenching by Camdeck Gold Mines Ltd.

1955: Surface work and 2,000 feet of diamond drilling by Camdeck Mines Ltd.

References: ODM 1955, Vol. 64, pt.4, p.20
Mineral Resources Branch File, Camdeck.

Lake-Osu Prospect

Main Metals: Au.

Location: NTS 42/L/06/E, Lat. 50°15, Long. 87°00', approximately 50 miles north of Geraldton, 36 claims on Osulake Peninsula of O'Sullivan Lake. Shaft on claim KK3204.
Map Reference: ODM Map 1955-2, O'Sullivan Lake Area.

Geology: Pre-Kenoran mafic and intermediate metavolcanics are cut by mafic and felsic intrusives. Mineralization occurs in easterly-trending sheared tuffs and quartz porphyry. At the main showing the best mineralization occurs in the porphyry on the surface and first level and in the tuff on the second level.

Economic Features:

Level	Length feet	Width feet	Grade ounces per ton	
			Uncut	Cut
1				
No. 103 East drift	174	5.1	0.43	
No. 103 West drift	63	3.5	0.31	
2				
No. 201 orebody	261.7	5.0	0.87	0.67
No. 203 orebody	112.5	5.4	0.36	0.29

(ODM 1955, Vol. 64, pt.4, p.25)
Reserves are estimated at 113,129 tons averaging 0.352 ounces of gold per ton (Canadian Mines Handbook 1970-71, p.215).

Ownership: Louanna Gold Mines Ltd.

History: 1935: Staked by J. Miller.
1935-36: Diamond drilling by McIntyre Porcupine Mines Ltd.
1945: Original 9 claims restaked plus a further 27, by J. Miller.
1946-48: A shaft sunk 300 feet, levels at 150 and 300 feet on which 580 feet of drifting and 52 feet of crosscutting were done. Diamond drilling underground from 4 holes totalled 270 feet, and from 33 surface holes 16,948 feet. Work by Osulake Mines Ltd.
1950-60: Magnetometer survey, shaft continued to 347 feet, drifting totalling 955 feet and crosscutting 98 feet. Surface and underground diamond drilling totalled at least 11,881 feet. Work by Lake-Osu Mines Ltd.
1964-65: Diamond drilling and underground work by Louanna Gold Mines Ltd.

References: ODM 1949, Vol. 58, pt.2, p.61-62
ODM 1955, Vol. 64, pt.4, p.23-26
Canadian Mines Handbook 1961, p.132
Canadian Mines Handbook 1970-71, p.215
Mineral Resources Branch File, Louanna (Lake-Osu).

THUNDER BAY DISTRICT

MINERAL OCCURRENCES

Location and Name	References	Metals	Remarks
Conacher Tp., SW part, approx. 45 miles NW of Thunder Bay on S shore of Lower Shebandowan Lake (Ourgold Occurrence)	Canadian Mines Handbook 1947, p.235 ODM Map 2065, Atikokan-Lakehead Sheet	Au	1946: Pitting by Ourgold Mining Co.
Dorothea Tp., SE part, to the SE of the Amerada Prospect (Lawrence-McKirdy Occurrence)	ODM 1936, Vol. 45, pt.2, p.115 Canadian Mines Handbook 1939, ODM Map 45a, Sturgeon River Gold Area	Au	Mafic metavolcanics cut by a shear zone containing irregular quartz masses, one is 6 inches to 1 foot wide and 20 feet long, and assayed 0.08 oz./ton Au. 1935: Held by the Lawrence McKirdy Syndicate. Circa 1936-39: Surface work by Lawrence Gold Mines Ltd.
Dorothea Tp., S part, N of Sturgeon River and less than 1 mile E of Lake Nipigon (H.A. Montgomery Occurrence)	ODM 1936, Vol. 45, pt.2, p.115 Mineral Resources Branch File, Montgomery Group ODM Map 45a, Sturgeon River Gold Area	Au	Mafic metavolcanics cut by veins, one in extreme NE corner carries minor gold values. Later acquired by Montgomery-Ackerman Gold Mines Ltd.
Dorothea Tp., bordering Lake Nipigon about 1 mile N of the mouth of the Sturgeon River. Claim TB17430 (Tom Johnson Occurrence)	ODM 1936, Vol. 45, pt.2, p.117 Mineral Resources Branch File, Tom Johnson ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics cut by a felsic dike and a 4- to 12-inch wide vein which strikes N70°E over a length of 420 feet. Gold values range from a trace to 0.90 oz./ton Au over narrow widths. 1934: Optioned by Tom Johnson Nipigon Mines Ltd. 1935: Considerable amount of work including 3,400 feet diamond drilling
Eva Tp., 1½ miles W of Sand River Mine, Claim TB13759 (Sand River, Creek Vein Occurrence)	ODM 1936, Vol. 45, pt.2, p.110-112 ODM Map P.601, Eva Township	Au	The 400-foot long vein occurs mostly in quartz diorite dike in greywacke, strikes N74°E and averages 24 inches in width. Channel samples averaged 0.22 oz./ton Au across 18 inches; 2,450 feet drilling by Sand River Mining Co. Ltd. in 1935
Gorham Tp., south central part, con. II, S½ of lots 7 and 8, claim R463 (Lake Head Occurrence)	ODM 1939, Vol. 48, pt.3, p.12-15 ODM Map 48c, Gorham Township and Vicinity	Au	Metavolcanics are cut by veins in shear zones; No. 1 vein strikes approx. east, dips 80°S and averages 0.6 oz./ton Au across 27 inches over a length of 124 feet. 1936, 1938: Surface work and diamond drilling by Lake Head Gold Mines Ltd.
Haines Tp., S shore of SE part of Upper Shebandowan Lake. Claims TB24438 and TB24440 (Lake Shebandowan Occurrence)	ODM 1968, GR53, p.23-24 Mineral Resources Branch File, Lake Shebandowan Mine ODM Map P.223, Shebandowan Lake (West) Area	Au	Metavolcanics cut by fault zone striking east, dipping 80°S and occupied by auriferous lenses and stringers. Grab samples assayed 0.07 to 0.12 oz./ton Au. 1900-01: Adit driven 212 feet by Golden Hecla Mines Syndicate. Later owned by Kashabowie Mining Syndicate Ltd. and Andowan Mines Ltd.
Irwin Tp., SW part, between Windigokan Lake and Gooseneck Lake (Boylen Occurrence)	ODM 1936, Vol. 45, pt.2, p.114 ODM Map 45a, Sturgeon River Gold Area	Au	Mafic metavolcanics cut by shear zone reported to enclose an auriferous quartz-carbonate vein
Irwin Tp., north-central part, between the mouth of Crooked Green Creek and the 4-mile post on N boundary of township (Crooked Green Creek Occurrence)	ODM 1936, Vol. 45, pt.2, p.98 ODM Map 45a, Sturgeon River Gold Area	Au	Intermediate to felsic metavolcanics cut by a mafic dike and veins; No. 1 strikes E, dips 70°S and the best sample assayed 0.64 oz./ton Au across 9 inches. 1934-35: Work by Cyril Knight Prospecting Co. Ltd.
Irwin Tp., NW corner spreading into Pifher Tp., N of Twin Falls on Namewaminikan River (P.E. Hopkins Occurrence)	ODM 1936, Vol. 45, pt.2, p.99 ODM Map P.481, Irwin Township	Au	Intermediate to felsic metavolcanics cut by quartz stringers. 1931: Gold associated with pyrite found by J.J. Green and G. Brennan
Irwin Tp., W part, N of Patter Lake (Karl Springer Occurrence)	ODM 1936, Vol. 45, pt.2, p.112-113 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics and metasediments, the former cut by a shear zone, strike E for approx. 600 feet and 40 feet wide from which a sample assayed 0.07 oz./ton Au. Circa 1936: Work by Karl Springer Exploration Co. Ltd.
Irwin Tp., SW part, S of Schnob Lake, E of Boylen Group (Lac Teck Occurrence)	ODM 1936, Vol. 45, pt.2, p.100-101 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics enclosing a gossan zone, samples of which showed no gold values. Circa 1936: Work by Lac Teck Gold Mines Ltd.
Irwin Tp., NW part, S of Namewaminikan River approx. 1 mile E of Twin Falls (Mineral Development Occurrence)	ODM 1936, Vol. 45, pt.2, p.115 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics cut by intrusives and shear zones, the latter containing low gold values

Location and Name	References	Metals	Remarks
Leduc Tp., south-central part, 13 claims, 30 miles SW of Geraldton, between Blackwater Lake and the CNR track. Claim PA101686 (Jorsco Occurrence)	Mineral Resources Branch File, Jorsco ODM Map 2102, Tashota-Geraldton Sheet	Au	Pre Kenoran mafic metavolcanics are cut by a shear zone striking N70°E which assayed 0.01 and 0.10 oz./ton Au, and a sulphide-rich band which assayed 0.01 and 0.04 oz./ton Au. 1916: Geological survey by A.G. Burrows (OBM 1917, Vol. 26, p.244). 1962: Stripping by Jorsco Explorations Ltd.
McComber Tp., west-central part, approx. 8 miles northeast of Beardmore (Delbridge Occurrence)	ODM 1928, Vol. 37, pt.4, p.106 and Map 37k Mineral Resources Branch File, Ralph Lake ODM Map 2102, Tashota-Geraldton Sheet	Au asp	Mafic and intermediate metavolcanics enclose a band of iron formation, strike N75°E, intruded by quartz veins. Gold occurs in the iron formation, and veins associated with sulphides
McComber Tp., central part, approx. 6 miles northeast of Beardmore (Fox Occurrence)	ODM 1928, Vol. 37, pt.4, p.106 and Map 37k Mineral Resources Branch File, Ralph Lake ODM Map 2102, Tashota-Geraldton Sheet	Au asp	Mafic and intermediate metavolcanics enclose a band of iron formation, strike N75°E, intruded by quartz veins. Gold occurs in the iron formation and veins associated with sulphides
McComber Tp., west-central part, approx. 8 miles northeast of Beardmore (Gwyn Beardmore Occurrence)	Mineral Resources Branch File, Ralph Lake ODM Map 2102, Tashota-Geraldton Sheet	Au asp	Mafic and intermediate metavolcanics. Circa 1936: Surface work by Gwyn Beardmore Mines Ltd.
McComber Tp., west-central part, approx. 4 miles northeast of Beardmore (Jarvela Occurrence)	ODM 1928, Vol. 37, pt.4, p.106 Canadian Mines Handbook 1939, p.190 Mineral Resources Branch File, McKenzie-Jarvela ODM Map 37k, Beardmore-Nezah Gold Area	Au	Mafic and intermediate metavolcanics cut by an easterly-striking vein, approx. 2,600 feet long and up to 4 feet wide, containing gold and sulphides. Circa 1927: Pitting and trenching Circa 1938-39: Optioned by Nipsona Mines Ltd.
McComber Tp., west-central part, approx. 3½ miles northeast of Beardmore (McKenzie Occurrence)	ODM 1928, Vol. 37, pt.4, p.106 Canadian Mines Handbook 1939, p.190 Mineral Resources Branch File, McKenzie-Jarvela ODM Map 37k, Beardmore-Nezah Gold Area	Au	Mafic and intermediate metavolcanics are cut by two veins 1 to 3 feet wide traced over 960 feet and mineralized with gold associated with sulphides. Circa 1927-28: Ownership: Hewitt Gold Mining Co.; circa 1938-39: Nipsona Mines Ltd.; circa 1940: Kenmore Gold Mines Ltd.
McComber Tp., west-central part, approx. 7 miles northeast of Beardmore (Morrison Occurrence)	ODM 1928, Vol. 37, pt.4, p.106 and Map 37k Mineral Resources Branch File, Ralph Lake ODM Map 2102, Tashota-Geraldton Sheet	Au	Mafic and intermediate metavolcanics enclose a 4- to 15-foot wide band of iron formation striking N75°E, intruded by quartz veins up to 1 foot wide. Gold occurs in the iron formation and veins associated with sulphides. Circa 1928: Stripping 1937: Property acquired by Maple Creek Rouyn Mining Syndicate Ltd.
McComber Tp., west-central part, approx. 5 miles northeast of Beardmore. Claim TB4864 (Neelin-Braggan Occurrence)	ODM 1928, Vol. 37, pt.4, p.106 Canadian Mines Handbook 1937, p.283 Mineral Resources Branch File, Adelaide (Neelin-Braggan)	Au	Mafic and intermediate metavolcanics enclose a band of iron formation. The best showing, a 10-foot wide shear zone in metavolcanics was reported mineralized with gold and sulphides. Circa 1927: Surface work Circa 1935-37: Adelaide Gold Mines Ltd. acquired property and did work
Moss Tp., central part, approx. 70 miles northwest of Thunder Bay and 3,000 feet south of Obadinaw River	ODM 1968, Open File Rept. 5020, p.84 ODM Map P.451, Moss Lake Area (North Part)	Au Ag	Felsic and intermediate metavolcanics are cut by a vein, strike N60°E, 300 feet long and 7 inches to 15 feet wide, assays from 0.01 to 0.21 oz./ton Au and trace to 1.70 oz./ton Ag
Moss Tp., south-central part, 40 miles SE of Atikokan, N of Wawiag River, SW of Moss Lake (Moss Occurrence)	Mineral Resources Branch File, Moss Township ODM Map 2065, Atikokan-Lakehead Sheet	Au	
Pifher Tp., SW part, 1¼ miles NE of Twin Falls and SE of Taylor-Segsworth claims (Milroy-Taylor Occurrence)	ODM 1936, Vol. 45, pt.2, p.109 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics, metasediments and felsic intrusives. Nine-inch wide vein, strike N60°W, dip steeply S with in places visible gold. 1935: Some surface exploration. For a time optioned to Tellaurum Gold Mines Ltd.
Pifher Tp., SW part, N of P.E. Hopkins Occurrence (Taylor-Segsworth Occurrence)	ODM 1936, Vol. 45, pt.2, p.117 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics cut by veins and shear zones containing unimpressive mineralization
Sandra Tp., extending into Meader Tp., north-central part, N of W end of Musca Lake (Brennan and Kenty Occurrence)	ODM 1936, Vol. 45, pt.2, p.91-92 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics, cut by felsic intrusives of which feldspar porphyry contains mineralized shear zones. No. 4 vein strikes N55°E for 200 feet, dips steeply N and assayed 0.06 oz./ton Au. Circa 1935: Prospected by Brennan and Kenty Bros. Prospecting Co. Ltd.

Location and Name	References	Metals	Remarks
Sandra Tp., north-central part, ½ mile S of Musca Lake (Cyril Knight Occurrence)	ODM 1936, Vol. 45, pt.2, p.98-99 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics cut by felsic intrusives and quartz lenses with strike N45°W and dip 55°N. The main lense is 45 feet long with maximum width of 17 feet. A 2-foot "pay streak" yielded 1.90 oz./ton Au across 7 inches. Circa 1936: Prospected by Cyril Knight Prospecting Co. Ltd.
Summers Tp., SW part, shaft on claim TB37379 (5056) approx. 2 miles SW of Beardmore (Buffalo Beardmore Occurrence)	ODM 1937, Vol. 46, pt.1, p.109 Assessment Work Files, Toronto 63208 Mineral Resources Branch File, Broadview ODM Map P.602 Summers Township	Au	Metavolcanics enclose the 'Hill' vein, 500 feet long and averaging 8.7 feet in width, which was reported as assaying 0.4 oz./ton Au. A further showing on TB31470 to the east assayed from 0.10 to 0.25 oz./ton Au. 1935-43: Surface exploration, 80-foot shaft and more than 10,000 feet of diamond drilling by Buffalo Beardmore Gold Mines Ltd. Circa 1949: Magnetometer survey by Broadview Gold Mines Ltd.
Summers Tp., north-central part, S of Sandy Creek and approx. 1 mile N of Standingstone Lake	ODM 1936, Vol. 45, pt.2, p.92 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics enclosing auriferous zones
Summers Tp., south-central part, 1¼ miles W of Beardmore (Empire Contact Occurrence)	ODM 1936, Vol. 45, pt.2, p.114 Canadian Mines Handbook, 1939, p.333 ODM Map 45a, Sturgeon River Gold Area	Au	Metavolcanics cut by a shear zone, strike N70°E, dip vertically or steeply S containing veins with minor gold and sulphides. 1935: Optioned by Mining Corporation of Canada Ltd.
Summers Tp., SE of Standingstone Lake (Long Lac Superior Standingstone Occurrence)	ODM 1936, Vol. 45, pt.2, p.105-106 ODM Map 45a, Sturgeon River Gold Area	Au	Greywacke, iron formation and a 150-foot wide diabase dike. A shear zone was examined without observing important mineralization
Summers Tp., west-central part, E of Leitch Mine (Wilport Occurrence)	ODM 1936, Vol. 45, pt.2, p.113 ODM Map 45a, Sturgeon River Gold Area Survey of Mines 1959, p.163	Au	Metasediments and metavolcanics cut by veins. No. 2 strikes N65°E for 300 feet, dips N and gave low gold values. No. 3 vein is reported to contain visible Au. During 1935 diamond drilling was started. Held up to 1959 by Wilport Gold Mines Ltd. 1940: Optioned by Northern Empire Mines Ltd.
Walters Tp., SE part, 16 miles NE of Beardmore, on the S shore of the E end of Nissiamkikam Lake (Strathcona Occurrence)	Mineral Resources Branch File, Nissiamkikam Lake ODM Map 45a, Sturgeon River Gold Area	Au	A 2 to 4 inch wide sulphide-rich zone adjacent to a quartz vein within a shear zone assayed 0.26 to 0.85 oz./ton Au. The vein assayed 0.22 oz./ton Au. Circa 1936: Trenching and pitting probably by Strathcona Mines Ltd.
Township 84, approx. 40 miles NW of Marathon and 2 miles N of Schreiber. Claims TB28231, T 28232 and TB35349 (P.J. Sullivan Occurrence)	Mineral Resources Branch File, Sullivan Claims ODM Map 2137, Nipigon-Schreiber Sheet	Au	Pre-Kenoran intermediate to felsic metavolcanics enclose several veins, strike N with a slight dip E. The main vein averages 6 inches in width, is 200 feet long; 4 out of 9 samples assayed from 1.98 to 30.3 oz./ton Au
Lat. 48°00', Long. 85°15', NTS 42/C/03/W N of W end of Mishibishu Lake, 9 claims (Macassa Occurrence)	ODM 1940, Vol. 49, pt.9, p.12 ODM Map 49j ODM Map P.507, Legend	Au Pb	Quartz vein containing gold associated with galena intrude schistose metavolcanics and metasediments. Trenching, sampling and drilling were carried out.
Lat. 48°15', Long. 87°15', NTS 42/D/14/W approx. 40 miles NW of Marathon, ¼ mile SW of Big Duck Lake. Claim TB97568 (Cooper Occurrence)	ODM 1964, GR27, p.31 ODM Map 2023, Big Duck Lake Area	Au Mo	Pre-Kenoran metavolcanics enclose a vein, strike N20°-25°W, dip apparently vertical, length 250 feet, width averaged 6 feet. One vein sample reportedly contained 0.14 oz./ton Au but the highest assays obtained by the Provincial Assay Laboratory was 0.01 oz./ton Au
Lat. 48°15, Long. 87°15', NTS 42/D/14/W approx. 40 miles NW of Marathon, ¼ mile SW of Little Duck Lake. Claim TB2106 (Johnson-Fisher Occurrence)	ODM 1964, GR27, p.35 ODM Map 2023, Big Duck Lake Area	Au	Pre-Kenoran metavolcanics enclose a vein, strike E, dip 60°N, 5 feet wide, which was reported to assay 0.37 oz./ton Au. 1914: Held by A. Fisher
Lat. 48°15', Long. 87°15', NTS 42/D/14/W approx. 40 miles NW of Marathon, approx. ¼ mile E of Little Duck Lake. Claim TB3250 (Longworth Occurrence)	ODM 1964, GR27, p.37 ODM Map 2023, Big Duck Lake Area	Au	Pre-Kenoran metavolcanics enclose a gossaniferous vein, strike NE, dip 60°-80°SE, 200 feet long and 1 to 3 feet wide. Four chip samples gave low gold assays. 1917: Staked by W. Longworth 1960: Sampled by Keevil Mining Corp.
Lat. 48°15', Long. 87°15', NTS 42/D/14/W approx. 40 miles NW of Marathon, approx. ½ mile SW of the W arm of Big Duck Lake. Claim TB3353 (St. Louis Occurrence)	ODM 1964, GR27, p.37 ODM Map 2023, Big Duck Lake Area	Au Cu	Pre-Kenoran metavolcanics enclose a vein with low gold content

Location and Name	References	Metals	Remarks
Lat. 48°15', Long. 87°15', NTS 42/D/14/W approx. 40 miles NW of Marathon, approx. ¼ mile W of the W arm of Big Duck Lake Claim TB3304 (Sjolander Occurrence)	ODM 1964, GR27, p.37 ODM Map 2023, Big Duck Lake Area	Au Mo	Pre-Kenoran metavolcanics enclose two intersecting veins. The main vein, strike N15°W for 40 feet, dip 75°E, is up to 11 feet wide and poorly mineralized. The second vein, strike N75°E, dip 80°N, is 7 feet wide and contains sulphides. Assays returned low gold values
Lat. 48°15', Long. 87°15', NTS 42/D/14/W approx. 40 miles NW of Marathon, approx. ¼ mile W of Big Duck Lake (R.A. Tribe Occurrence)	ODM 1964, GR27, p.38-39 ODM Map 2023, Big Duck Lake Area	Au Mo	Pre-Kenoran metavolcanics enclose a zone of pyritized hornblende schist, strike E, dip 65°-75°N and 30 feet wide. The best sample assayed 0.06 oz./ton Au over 3 feet. 1917: Staked by R.A. Tribe and P. Pyke 1960: Sampled by Keevil Mining Group
Lat. 48°15', Long. 90°45', NTS 52/B/07/W 50 miles SE of Atikokan to the W of Cunniah Lake (Cunniah Lake Occurrence)	Mineral Resources Branch File, Cunniah Lake ODM Map 2065, Atikokan-Lakehead Sheet	Au	
Lat. 48°15', Long. 90°45', NTS 52/B/07/W 50 miles SE of Atikokan on the N shore of Saganaga Lake (Saganaga Lake Occurrence)	Mineral Resources Branch File, Saganaga Lake ODM Map 2065, Atikokan-Lakehead Sheet	Au	
Lat. 48°30', Long. 90°30', NTS 52/B/10/E 40 miles SE of Atikokan and NE of Burchell Lake (Burchell Lake Occurrence)	Mineral Resources Branch File, Burchell Lake ODM Map P.188, Quetico Sheet	Au	Pre-Kenoran metavolcanics of metasediments enclose gold
Lat. 48°45', Long. 90°00', NTS 52/B/16/W approx. 60 miles NW of Thunder Bay, Lac des Milles Lacs (Bolton Bay Occurrence)	ODM 1967, GR48, p.25-26 Mineral Resources Branch File, Bolton Bay ODM Map 2104, Bolton Bay Sheet	Au Ag Cu	At the contact between Pre-Kenoran metavolcanics and pillow lavas, a rhyolitic flow or sill contains a silicified breccia zone striking N75°E, 880 feet long and 35 feet wide. Best assays 1.74 oz./ton Au, 4.16 oz./ton Ag, and 1.0% copper. 1934: Sampling by Ventures Ltd.
Lat. 49°00', Long. 87°00', NTS 42/E/03/E approx. 40 miles NW of Marathon, approx. ¼ mile NE of Big Duck Lake (Gray Occurrence)	ODM 1964, GR27, p.34 ODM Map 2023, Big Duck Lake Area	Au	Pre-Kenoran mafic metavolcanics are cut by a 4.5-foot wide vein, strike N80°W, dip 50°N, and a 3-foot thick mineralized zone, strike E, dip 55°N. The vein assayed a trace and the zone 0.04 oz./ton Au
Lat. 49°00', Long. 87°15', NTS 42/E/03/W approx. 40 miles NW of Marathon, approx. ¼ mile NW of Big Duck Lake (Fisher Occurrence)	ODM 1940, Vol. 49, pt.7, p.9 ODM 1964, GR27, p.34 ODM Map 2023, Big Duck Lake Area	Au	Pre-Kenoran mafic metavolcanics are cut by a vein, strike N70°E and dip 65°NW
Lat. 49°00', Long. 87°15', NTS 42/E/03W approx. 40 miles NW of Marathon, approx. ½ mile N of Big Duck Lake (Madson Occurrence)	ODM 1964, GR27, p.37 ODM Map 2023, Big Duck Lake Area	Au	Pre-Kenoran mafic metavolcanics are cut by a vein which assayed 0.12 oz./ton Au across 5 feet
Lat. 49°00', Long. 87°15', NTS 42/E/03/W approx. 40 miles NW of Marathon, approx. ¼ mile NW of Big Duck Lake. Claims TB1861 and TB1955 (Sjolander-McKirdy Occurrence)	ODM 1964, GR27, p.38-39 ODM Map 2023, Big Duck Lake Area	Au	Pre-Kenoran mafic metavolcanics are cut by felsic intrusives, and a 5-foot wide sulphide-rich vein, strike N70°E, dip 65°NW which assayed 0.07 oz./ton Au. 1960: Two diamond drill holes by KRNO Mines Ltd.
Lat. 50°00', Long. 90°30', NTS 52/J/02/E approx. 55 miles east of Sioux Lookout, on the east shore of Belmont Bay of Sturgeon Lake, location HW746 (Belmore Bay Occurrence)	OBM 1908, Vol. 17, p.66 OBM 1911, Vol. 20, pt.1, p.153 ODM Map 2169, Sioux Lookout-Armstrong Sheet	Au	Pre-Kenoran metavolcanics. A shaft reportedly sunk 250 feet and a 3-stamp mill constructed
Lat. 50°15', Long. 86°45', NTS 42/L/07/W approx. 50 miles N of Geraldton, ½ mile N of the E end of Northeast Arm of O'Sullivan Lake (Megan Occurrence)	ODM 1955, Vol. 64, pt.4, p.26 ODM Map 1955-2, O'Sullivan Lake Area	Au	Pre-Kenoran mafic and intermediate metavolcanics are cut by felsic intrusives associated with gold
Lat. 50°15', Long. 87°00', NTS 42/L/06/E approx. 50 miles N of Geraldton on Cryderman Peninsula of O'Sullivan Lake. Claim TB2703 (R. Cryderman Occurrence)	ODM 1931, Vol. 40, pt.4, p.99-100 ODM Map 1955-2, O'Sullivan Lake Area	Au	Pre-Kenoran mafic and intermediate metavolcanics are cut by mafic and felsic intrusives. Samples from a 30-foot wide carbonate zone assayed 0.29 and 1.0 oz./ton Au
Lat. 50°15', Long. 87°00', NTS 42/L/06/E 50 miles NW of Geraldton, less than ½ mile east of O'Sullivan Lake (O'Sullivan Lake Occurrence)	Mineral Resources Branch File, O'Sullivan Lake ODM Map 2102, Tashota-Geraldton Sheet	Au Ag Cu	
Lat. 50°15', Long. 87°45', NTS 42/L/05/W approx. 50 miles N of Beardmore, 1 mile S of the E part of Toronto Lake (Zmudzinski Occurrence)	ODM 1968, GR55, p.43-45 ODM Map 2100, Crescent Lake Area	Au Mo	Inclusions of Pre-Kenoran metavolcanics within Kenoran felsic intrusives contain sulphide-rich auriferous zones. Two samples from the No. 1 deposit, strike E, dip 65°N, assayed 0.42 and 0.23 oz/ton Au. 1960: Sogemines Development Co. Ltd. bored at least 3 diamond drill holes totalling 206 feet.

Location and Name	References	Metals	Remarks
Lat. 50°30', Long. 88°45', NTS 52/I/10/W approx. 70 miles NE of Savant Lake on S tip of Keller Island of Caribou Lake (Keller Occurrence)	ODM 1940, Vol. 49, pt.6, p.10 ODM Map 49q, Caribou-Pikitigushi Area	Au Cu	Metavolcanics cut by a vein from which low Au and Cu values were recorded

INDEX

(Townships, Mining Companies, Owners, and Deposits)

Page

Aberdeen Township 18
Abino Gold Mines Ltd. 193
Abino Prospect, Balmer Tp. 193
Abitibi Mines Ltd., The 78
Abraham, M. 239
Abraham, Michael, Occurrence, Willingdon Tp. 239
Abuy Gold Mines Ltd. 131
Abuy Occurrence, Hislop Tp. 131
Accordia Porcupine Gold Mines Ltd. 60
Acme Gold Mines Ltd. 100
Adams, D.H., No. 1 Occurrence 246
Adams, D.H., No. 2 Occurrence 246
Adelaide Gold Mines Ltd. 299
Adonis Mines Ltd. 25
Adonis Occurrence, Tp. 49 44
AD2 Gold Mining Co. of Ontario Ltd. 255
Afton Mines Ltd. 292
Agawa Gold Mines Ltd. 26
Agawa Porcupine Mines Ltd. 26
Ahn, R.H. 179
Aiken Red Lake Gold Mines Ltd. 186
Aiken Red Lake Prospect, Baird Tp. 186
Aiken-Russet Red Lake Mines Ltd. 186, 190
Albany River Gold Mines Ltd. 203
Albany River Mines Ltd. 203
Alchib Development Ltd. 158
Alcock, C.A. 143, 144
Alcock, C.A., Occurrence 239
Alcourt Mines Ltd. 221
Alcourt Prospect, Fairlie Tp. 220-221
Alden-Goudreau Mine (Past Producer) 20
Alden-Goudreau Mines Ltd. 21
Algold Mines Ltd. 24
Algoma Commercial Co., The 29
Algoma Steel Corp. Ltd. 43
Algoma Summit Gold Mines Ltd. 39
Algoma Summit Mine (Past Producer) 38-39
Aljo Mine (Past Producer) 45, 47
Aljo Mines Ltd. 45, 47
Alsof Mines Ltd. 125
Alto, J.W. 153
Alto-Gardnar Prospect, MacFie Tp. 153
Amalgamated Gold Fields Corp. Ltd. 48
Ambrose Occurrence 242
Amca Mines Ltd. 68
American Eagle Prospect 80
American Porcupine Occurrence, Turnbull Tp. 137
American Yellowknife Gold Mines Ltd. 25
American Yellowknife Occurrence, Harker Tp. 130
Amichi Gold Mines Ltd. 289
Amichi Prospect 288-289
Amorada Gold Mines Ltd. 264
Amorada Prospect 264-265
Anaconda Co. (Canada) Ltd. 133
Anaconda Occurrence, Mountjoy Tp. 133
Anchorite Mining Co. Ltd. 55
Andargo Occurrence, Tp.29, R.23 43
Anderson, J., Occurrence, Currie Tp. 127
Anderson, W.H., Occurrence, Garrison Tp. 127
Andowan Mines Ltd. 298
Anglian Mining and Finance Co. Ltd. 146
Anglo-Canadian Gold Estates Ltd. 170, 249
Anglo-Huronian Ltd. 51, 54, 108, 109, 133
Anglo-Huronian Occurrence, Michaud Tp. 133
Anjamin Mines Ltd. 250
Ankerite Gold Mines Ltd. 55
Ankerite Gold Mines Syndicate 55
Ankerite Mine (March) (Past Producer) 56-57
Ankerite Mine (Past Producer) 55-56
Annco Mine (Producer) 205-206
Annco Mines Ltd. 206
Anshaw Occurrence, Shaw Tp. 136
Anson Cartwright Mines Ltd. 131
Anson Cartwright Occurrence, Hislop Tp. 131
Anthony Blum Gold Mines Ltd. 164
Apollo Porcupine Mines Ltd. 80
Appleton, E. 179
Aquarius Porcupine Mines Ltd. 79
Aquarius Prospect 78-79
Arcadia Gold Mines Ltd. 89
Archer-Crawford Occurrence, Tp.48 43
Archibald, E.B. 130
Ardeen Gold Mines Ltd. 281
Argosy Gold Mines Ltd. 231
Argyll Gold Mines Ltd. 47
Argyll Mine (Past Producer) 47
Armont Gold Mines Ltd. 136
Armont Occurrence, Sheraton Tp. 136
Armont Occurrence, Thomas Tp. 136
Armstrong, H. 150

Page

Arnott, J.P. 139
Ash Bay Occurrence 242
Ashmore Township 262-264, 266
Associated Porcupine Mines Ltd. 53, 98, 104, 127
Atnel Occurrence, Tp.26, R.24 42
Aubrey Township 237
Auconda Occurrence, Macklem Tp. 132
Auconda Porcupine Gold Mines Ltd. 132
Augdome Corp. Ltd. 90
Augdome Exploration Ltd. 90
Augdome Prospect 90
Augite Porcupine Mines Ltd. 58
August Porcupine Gold Mines Ltd. 108
Aunor Gold Mines Ltd. 57, 58, 62
Aunor Mine (Producer) 57-58
Ava Gold Mining Co. Ltd. 244
Ava Occurrence, Heyson Tp. 244
Avery Lake Occurrence, Avery Tp. 237
Avery Township 237

Bad Mine, Haycock Tp. 150
Baden Powell Mine (Past Producer) 178-179
Bagamac Rouyn Mines Ltd. 228
Bag Lake Occurrence, Tweedsmuir Tp. 239
Baird Township 186-191, 244
Baker Lake Occurrence 247
Baker Township 248
Ball Township 191-192
Balmer Township 193-198, 244
Bamaji Lake Occurrence 245
Bambi Mines Ltd. 127
Bambi Occurrence, Garrison Tp. 127
Bankfield Consolidated Mines Ltd. 36, 265, 279
Bankfield Gold Mines Ltd. 265
Bankfield Mine (Past Producer) 265
Bankfield Prospect 36
Banner Porcupine Mines Ltd. 112
Banner Prospect 111-112
Banville-Page Occurrence, Tp.28, R.26 42
Bardyke Occurrence, Ewart Tp. 237
Barker Occurrence 241
Barlow-Dyer Occurrence, Guibord Tp. 129
Barrett Occurrence, Guibord Tp. 129
Bartnett, M., Occurrence, Jessop Tp. 132
Batch River Gold Mines Ltd. 242
Batch River Occurrence 242
Bateman Township 198-200, 244
Bath Island Occurrence 242
Bathurst, T.W. 227
Bay Lake Occurrence, Shaw Tp. 136
Bay Mines of Red Lake Ltd. 227
Bayview Red Lake Gold Mines Ltd. 228
Beanland, Sydney 50
Beardmore Gold Mines Co. Ltd. 285
Beardmore Gold Mines Ltd. 285
Beardmore Mine (Past Producer) 284-285
Beatrice Prospect, Bateman Township 198
Beatrice Red Lake Gold Mines Ltd. 198
Beatty Syndicate Occurrence, Beatty Tp. 123
Beatty Township 45, 47-49, 123
Beaumont Gold Mines Ltd. 91
Beaumont Prospect 91
Beaver Prospect 290
Bellbirk Porcupine Mines Ltd., The 137
Bellingham, H.P., Occurrence, Harker Tp. 130
Belmore Bay Occurrence 301
Ben Arch Mines Ltd. 130
Ben-Arch Occurrence, Harker Tp. 130
Benella, Harry 52
Bennett-Pacaud Mines Ltd. 24
Bennett Township 248-249
Benson, A. 149
Berens River Mine (Past Producer) 233-234
Berens River Mines Ltd. 234
Berger, N. 255
Berger and Randolph 256
Bertram Occurrence, Cody Tp. 125
Bewick-Moreing and Co. 93
Big Dutchman Occurrence, Robb Tp. 135
Big Dyke Gold Mines Ltd. 135
Big Dyke Occurrence, Ogden Tp. 135
Big Game Occurrence, Munro Tp. 134
Big Master Consolidated Gold Mines Ltd. 161
Big Master Mine (Past Producer) 160-161
Big Master Mining Co. 161
Big Pete Canadian Mines Ltd. 129
Big Pete Mining Co. 136
Big Pete Occurrence, Guibord Tp. 129
Big Pete Occurrence, Steele Tp. 136
Birch Bay Gold Mines Ltd. 241

Page

Bird, S.J. 129
Bird, S.J., No. 1 Occurrence, Garrison Tp. 127
Bird, S.J., No. 2 Occurrence, Garrison Tp. 127
Birse-Richardson Occurrence, Stull Lake 247
Bishop Occurrence 261
Bishu Mines Ltd. 289
Bishu Prospect 289
Blackburn Occurrence, Carscallen Tp. 125
Black Eagle Gold Mining Co. Ltd. 159
Black Fly Occurrence, Freeborn Tp. 261
Black Hawk Occurrence, Cody Tp. 126
Black Hawk Occurrence, Macklem Tp. 132
Black Hawk Porcupine Mines Ltd. 132
Black Jack Mine, Kirkup Tp. 152
Black Jack Mining Co. 151
Black Jack Prospect, Kirkup Tp. 151
Black River Occurrence, Carr Tp. 125
Black Sturgeon Mining Co. of Ontario Ltd., The 149
Black Sturgeon Prospect, Haycock Tp. 149-150
Blue Quartz Gold Mines Ltd. 48
Blue Quartz Prospect 48
Blue Star Gold Mines Ltd. 154
Bobjo Mines Ltd. 220
Bobjo Prospect 220
Bobs Lake Gold Mines Ltd. 138
Bobs Lake Occurrence, Whitney Tp. 138
Bolton Bay Occurrence 301
Bonanza Mines Ltd. 157
Bonanza Prospect, Van Horne Tp. 156
Bonanza United Mines Ltd. 177
Bonetal Gold Mines Ltd. 113
Bonetal Mine (Past Producer) 112-113
Bonetal Mines Ltd. 113
Bonter, G.A. 129
Bonter Occurrence, Guibord Tp. 129
Bonwhit Mine (Past Producer) 113-114, 122
Bonwhit Mines Ltd. 114
Booker, Clucas, Occurrence, Deloro Tp. 127
Bothman, H., and associates 158
Boulder Island Occurrence 242
Boulder Occurrence, Elliot Tp. 127
Boulder Occurrence, Phillips Tp. 238
Bouzan, M. 198
Bowman Township 123
Boylen Occurrence, Irwin Tp. 298
Boymar Gold Mines Ltd. 213
Boys Township 237
Brabar Mines Ltd. 135
Brabar Occurrence, Ogden Tp. 135
Brady, H.F. 167
Brae Breest Occurrence, Pellatt Tp. 238
Brandt, F. 24, 44
Brandt, Fred, Occurrence 42
Brenbar Mines Ltd. 275
Brengold Mine (Past Producer) 275-276
Brengold Mines Ltd. 275
Brengold Occurrence 245
Brennan, G. 298
Brennan and Kenty Bros. Prospecting Co. Ltd... 264, 275, 299
Brennan and Kenty Occurrence, Sandra Tp. 299
Brent, C. 170
Brewis and White Ltd. 128
Brighton Occurrence, Tp.28, R.26 42
Bristol Township 49-50, 123-124
Britannia Consolidated Gold Mining Co. of
  Ontario Ltd. 152
Britaura Placer Occurrence, Bristol Tp. 123
British Canadian Mines Ltd. 254
Broadview Gold Mines Ltd. 300
Brookbank Prospect 276
Brookbank Sturgeon Mines Ltd. 276
Broulan Mine (Past Producer) 114-115
Broulan Porcupine Mines Ltd. 114, 115, 127, 129
Broulan Porcupine Occurrence, Garrison Tp. 127
Broulan Reef Mines Ltd. 91, 95, 112, 113, 114
  115, 121, 122, 132, 133
Broulan Reef Occurrence, Hoyle Tp. 132
Broulan Reef Occurrence, Macklem Tp. 132
Brown, W.J., Occurrence, Guibord Tp. 129
Brydge, J. 50
Brydges Gold Mines Ltd. 127
Brydges Occurrence, Garrison Tp. 127
Buffalo Ankerite Gold Mines Ltd. 55
Buffalo Ankerite Mines Ltd. 106
Buffalo Beardmore Gold Mines Ltd. 300
Buffalo Beardmore Occurrence, Summers Tp. 300
Buffalo Red Lake Mines Ltd. 222
Buff-Munro Gold Mines Ltd. 134
Buff-Munro Mines Ltd. 134
Buff-Munro Occurrence, Munro Tp. 134
Buffonta Mines Ltd. 68
Buffonta Prospect 68
Bullion Mining Co. of Ontario Ltd., The 150
Bullion No. 2 Mine, Glass Tp. 237
Bully Boy Occurrence, Phillips Tp. 239

Page

Buma Dip Gold Mines Ltd. 126
Bunker Hill Extension Mines Ltd. 228
Burchell Lake Occurrence 301
Burdette, D.B. 152
Burke, R.G., No. 1 Occurrence, Godfrey Tp. 129
Burke, R.G., No. 2 Occurrence, Godfrey Tp. 129
Burley Occurrence 242
Burnthut Island Prospect 184, 186
Burnt Occurrence 240
Byberg Occurrence, Guibord Tp. 129
Byers Township 125

Cable Mines and Oils Ltd. 215
Cadamet Mines Ltd. 290
Caldwell, J.F. 182
Callinan-McKay Exploration Co. 54
Camdeck Gold Mines Ltd. 295
Camdeck Mines Ltd. 296
Camdeck Prospect 295-296
Cameron, J.G. 52
Cameron Island Mine (Past Producer) 183-184
Cameron Island Mining and Development Co. Ltd. 184
Cameron Island Syndicate 184
Camex Prospect 36-37
Camex Prospecting Trust 37
Camp Bay Mining Co. Ltd. 155
Campbell, C. 221
Campbell, C.L. 295
Campbell, W. 257
Campbell, Lavin, Fawcett and Handlan 255
Campbell and Fairburn 52
Campbell-Moore Occurrence, Bowman Tp. 123
Campbell Red Lake Gold Mines Ltd. 194
Campbell Red Lake Mine (Producer) 194
Campbell Red Lake Mines Ltd. 209, 245
Camrose Occurrence, Munro Tp. 134
Canadel Gold Mines Ltd. 98
Canadian Arrow Mines Ltd. 74
Canadian Longyear Ltd. 248
Canadian Mines Development Co. Ltd. 254
Canadian Superior Exploration Co. 125
Canadian Superior Occurrence, Carman Tp. 125
Candore Exploration Ltd. 26, 138, 264
Cane, C.H.W. 81
Canfield, J.C. 28
Canusa Gold Mines Ltd. 112
Canusa Mining and Exploration Co. Ltd. 111
Caouette Claims 292
Cardinal Gold Mines Ltd. 192
Caribou Occurrence, Haycock Tp. 238
Carium Mines Ltd. 93
Carlmac Gold Mines Ltd. 133
Carlmac Occurrence, Mountjoy Tp. 133
Carman Gold Mines Ltd. 129
Carman Occurrence, Guibord Tp. 129
Carman Township 125
Carravelle Mines Ltd. 239
Carr Township 125
Carscallen Township 50-51, 125
Carshaw Porcupine Gold Mines Ltd. 87
Carshaw Porcupine Mines Ltd. 87
Carshaw Prospect 87
Cartwright, R. 154
Casey Contact Gold Mines Ltd. 275
Casey Mountain Operating Syndicate 231
Casey Summit Gold Mines Ltd. 231
Castlebar Silver & Cobalt Mines Ltd. 246
Caswell Occurrence, Michaud Tp. 133
Caswell-Williams Prospect 172-173
Caverhill, J.L. 30
Caverley, G. 272
Cedar Island Gold Mining Co. of Ontario Ltd. 146
Centennial Mine (Past Producer) 25-26
Central Canada Mines Ltd. 250
Central Manitoba Mines Ltd. 243
Central Patricia Gold Mines Ltd. 201, 223
Central Patricia Mine - No. 2 Operation
  (Past Producer) 201-202
Central Patricia Mine (Past Producer) 200-201
Central Patricia Mines Ltd. 92, 201
Central Porcupine Mines Ltd. 101
Central Porcupine Prospect 91-92
Champion Gold Mines Ltd. 150
Champion Prospect, Haycock Tp. 150
Chappie-Mammoth Gold Mines Ltd. 138
Chappie-Mammoth Occurrence, Whitney Tp. 138
Charlesbois, C.P. 295
Charpentier Occurrence, Lizar Tp. 42
Charter Oil Co. 102
Chellew Mines Ltd. 282
Cherbourg Gold Mines Ltd. 276
Chisholm, C.D. 198
Christman Claim, Turnbull Tp. 137
Chitty Occurrence, Tp.49 44
Chontor Mining Corp. 293

Page

Church Lake Occurrence 240
Church Prospect 290-291
Cincinnati Mine (Past Producer) 58-59
Cincinnati-Porcupine Mines Ltd. 58, 59
Claim BJ12 Occurrence 243
Claim HW311 Occurrence, Southworth Tp. 239
Claim KRL30579 Occurrence, Pickerel Tp. 239
Claim P1233 Occurrence, Carscallen Tp. 125
Claim P9608 Occurrence, Matheson Tp. 133
Claim TP43 Occurrence, Lat. 48°45', Long. 79°45' 138
Clamshell Lake Occurrence 245
Clark Gold Mines Ltd. 176
Clavos Occurrence, Stock Tp. 136
Clavos Porcupine Mines Ltd. 136
Clemens Occurrence, Macklem Tp. 132
Clergue Township 51
Clifford Gold Mines Ltd. 123
Clifford Occurrence, Beatty Tp. 123
Clifton Porcupine Mines Ltd. 58
Cline, P. 53
Cline Lake Gold Mines Ltd. 37, 40
Cline Mine (Past Producer) 37
Clucas Booker Gold Mining Co. Ltd. 59, 127
Clucas Booker Occurrence 59
Clodan Gold Mines Ltd. 123, 133
Clodan Occurrence, Beatty Tp. 123
Clodan Occurrence, Michaud Tp. 133
Cocallen Occurrence, Cody Tp. 126
Cochenour Willans Gold Mines Ltd. .. 206, 207, 208, 215, 216
Cochenour Willans Mine (Producer) 206-207
Cochenour Willans Syndicate 207
Cockshutt, C.F. 40
Coco-Estelle Prospect 291
Code Township 237
Cody Township 51-54, 125-126
Coin Lake Gold Mines Ltd. 71
Coin Lake Prospect 71-72
Cole, J.Y. 192
Cole Gold Mines Ltd. 192
Cole Prospect, Ball Township 191-192
Coleman (Knox Lake) Group 276
Colley Occurrence, Dome Tp. 244
Combined Gold Mines Co. of Ontario Ltd. 155
Combined Prospect, Phillips Tp. 155
Cominco Ltd. 123, 128
Cominco Occurrence, Garrison Tp. 128
Cominco Occurrence, Nameigos Tp. 42
Conacher Township 298
Concession II Occurrence, Currie Tp. 127
Concordia Gold Mining Co. Ltd. 60
Concordia Prospect 60-61
Cone, R. 254
Cone, Russell C. 257
Conecho Mines Ltd. 139
Conecho Occurrence, McAree Tp. 238
Conecho Prospect, Echo Tp. 139
Coniagas Mines Ltd. 55, 56, 93, 212, 230, 261, 277
Conigo Mines Ltd. 267
Coniaurum Mine (Past Producer) 92-93
Coniaurum Mines Ltd. 92, 93
Con-Key Mines Ltd. 294
Connell Mining and Exploration Co. 263
Connell Mining and Exploration Co. Ltd. 276
Connell-Stirrett-Williams Occurrence 245
Connell Township 200-204
Consolidated Golden Arrow Mines Ltd. 173
Consolidated Howey Gold Mines Ltd. 225
Consolidated Marcus Gold Mines Ltd. 208, 244
Consolidated Marcus Prospect, Dome Tp. 207-208
Consolidated Mining and Smelting Co. of Canada
  Ltd., The 30, 34, 73, 128, 196, 216, 218, 219, 275
Consolidated Montclerg Mines Ltd. 51
Consolidated Mosher Mines Ltd. 264, 268, 269
Consolidated Novell Mines Ltd. 88
Consolidated Red Poplar Minerals Ltd. 228
Consolidated West Dome Mines Ltd. 104
Consular-Harker Gold Mines Ltd. 130
Consular Harker Occurrence, Harker Tp. 130
Contact Bay Mines Ltd. 156, 157, 177
Continental Diamond Drilling and Exploration Co. Ltd... 283
Continental Kirkland Mines Ltd. 123
Continental Occurrence, Bristol Tp. 123
Conwo Gold Mines Ltd. 218
Cooper Claim 27
Cooper Gold Mines Ltd. 27, 31
Cooper Mine (Past Producer) 27, 31, 34
Cooper Occurrence 300
Copper-Man Mines Ltd. 244
Copper-Man Occurrence, Fairlie Tp. 244
Cora Gold Mines Ltd. 34
Cordell Occurrence, Tp.43 43
Corn Lake Gold Mines Ltd. 200
Corrigan, E. 251
Corrigan Occurrence, Halkirk Tp. 261
Cortez Explorations Ltd. 130

Page

Cortez Occurrence, Bristol Tp. 123
Cortez Occurrence, Harker Tp. 130
Cornucopia Mine (Past Producer), Glass Tp. 146-147
Côté Township 126
Coutu, Edmond 34
Coutu, Wilfred 34
Coutu Gold Mines Ltd. 34
Coutu Prospect 34
Craibbe-Fletcher Gold Mines Ltd. 209
Craibbe-Fletcher Prospect, Dome Tp. 208-209
Credo Porcupine Gold Mines Ltd. 89
Croesus Gold Mines Ltd. 81
Croesus Mine (Past Producer) 81
Cromarty Exploration Co. Ltd. 110
Crooked Green Creek Occurrence, Irwin Tp. 298
Croomor Mines 294
Crowbank Mines Ltd. 226
Crown Chartered Gold Mining Co. 137
Crown Chartered Prospect 94
Crown Mine (Past Producer) 93-94
Crown Point Mining Co. Ltd. 147
Crown Point Prospect, Glass Tp. 147
Crown Reserve Mining Co. Ltd. 94
Crowshore Gold Mines Ltd. 226
Crowshore Patricia Gold Mines Ltd. 226
Crowshore Prospect, McCullagh Tp. 226
Cryderman, James R. 73
Cryderman, R., Occurrence 301
Culbert-Peterson-Dubroy Occurrence, Walls Tp. 42
Culligan, P. 150
Cunniah Lake Occurrence 301
Currie Township 127
Cyril Knight Occurrence, Noseworthy Tp. 134
Cyril Knight Occurrence, Sandra Tp. 300
Cyril Knight Occurrence, Stull Lake 247
Cyril Knight Prospecting Co. Ltd. 134, 247, 298, 300

Daering Explorers Corp. Ltd. 166, 167
Dale Gold Mines Ltd. 130
Dale Occurrence, Harker Tp. 130
Darwin Gold Mines Ltd. 29
Dash Lake Occurrence 261
Daunais, Oliver 183
Davidson Gold Mines Ltd. 95
Davidson Mine (Past Producer) 94-95
Davidson Tisdale Mines Ltd. 95
Dawson-White Gold Mines Ltd. 293
Dawson-White Prospect 293
Dayton Porcupine Mines Ltd. 61
Dayton Prospect 61
Dead Broke Occurrence 241
Deep Lake Gold Mines Syndicate 28
Deep Lake Mine (Past Producer) 27-28
Delbridge Occurrence, McComber Tp. 299
Delcore Porcupine Mines Ltd. 60
Delnaur Gold Mines Ltd. 127
Delnaur Occurrence, Deloro Tp. 127
Delnite Mine (Past Producer) 61-62
Delnite Mines Ltd. 58, 61
Deloro Township 55-58, 127
Deloro-Wright Syndicate 63
Deloye, E.C. 128
Deloye Occurrence, Garrison Tp. 128
Delwin Mines Ltd. 63
Delwin Prospect 62-63
Delwood Porcupine Gold Mines Ltd. 63
Delwood Prospect 63
Demers, G., Occurrence, Harker Tp. 130
Denovo Gold Mines Ltd. 123
Denovo Occurrence, Beatty Tp. 123
Dent Township 204-205
Derlak Red Lake Gold Mines Ltd. 223
Derlak Red Lake Prospect 223
De Santis, Peter 111
De Santis Gold Mining Co. Ltd., The 83, 111
De Santis Mine (Past Producer) 82
De Santis Mining Co. Ltd. 111
De Santis Porcupine Gold Mines Ltd. 83
De Santis Porcupine Mines Ltd. 111
De Santis Prospect 110-111
Detola Development Co. Ltd. 162
Detola Prospect 162
Detroit New Ontario Mines Ltd. 82
Devanney, T., Occurrence, Turnbull Tp. 137
Devon Gold Mines Ltd. 45, 47
Dickenson Mines Ltd. 161, 188, 193, 195
196, 197, 199, 209
Dickenson Mine (Producer) 194-195
Dickenson Red Lake Mines Ltd. 195
Dikdik Exploration Co. Ltd. 284
Dinnick, A.G.C., Occurrence, Munro Tp. 134
Dipaolo Occurrence, Garrison Tp. 128
Dobie Mines Ltd., The 95
Dobell Prospect 95
Dogpaw Gold Mines Ltd. 173

Page

Dogpaw Lake Prospect ... 173
Dome Exploration (Canada) Ltd. ... 197
Dome Mine (Producer) ... 96
Dome Mines Ltd. ... 96, 97, 189, 194, 197, 209, 222, 245
Dome Township ... 205-216, 244
Dominion Gold Mining and Reduction Co. Ltd. ... 152
Dominion Reduction Co. Ltd. ... 161, 162, 164
Dorothea Township ... 264-265, 298
Drawson Occurrence, Fairlie Tp. ... 244
Dryden-Red Lake Occurrence ... 240
Dubeau-Dussault Occurrence ... 246
Duchesne Red Lake Mines Ltd. ... 199
Duchesne Red Lake Prospect, Bateman Tp. ... 198-199
Duncan, A. ... 145
Duncan, J. ... 145
Dunkin, T., Occurrence ... 245
Dunlop Occurrence, Beatty Tp. ... 123
Dunmar Mines Ltd. ... 133
Dunmar Occurrence, Michaud Tp. ... 133
Duport Mining Co. Ltd. ... 184
Durham, J.E. ... 189
Durham, W.C. ... 189
Durham Red Lake Gold Mines Ltd. ... 189
Dyer Occurrence, Guibord Tp. ... 129

Eagle Lake Soapstone Mines Ltd. ... 180
Eaglelund Gold Mines Ltd. ... 156
Eaglelund Prospect, Pickerel Tp. ... 156
Earngey Township ... 216-220
Eastern Township and Development Co. ... 176
Eby, A., Occurrence, Guibord Tp. ... 129
Echo Township ... 139-141
Edgecreek Consolidated Gold Syndicate Ltd. ... 123
Edgecreek Gold Mines (1936) Ltd. ... 123
Edgecreek Gold Syndicate ... 123
Edgewater Occurrence, Carman Tp. ... 125
Edgewater Porcupine Mines Ltd. ... 125
Edward Consolidated Mines Ltd. ... 38
Edward Gold Mines Ltd. ... 38
Edwards, Peter ... 23
Edwards, W.S. ... 98
Edwards Mine (Past Producer) ... 38
Egan Township ... 127
El Diver Occurrence, Haycock Tp. ... 238
Eldorado Mining Co. ... 179, 180
Eldorado Prospect ... 179-180
Electra Occurrence, Macklem Tp. ... 133
Electra Porcupine Gold Mines Ltd. ... 133
Electrum Lake Gold Mines Ltd. ... 143
Electrum Lake Occurrence, Ewart Tp. ... 237
Electrum Prospect (Arsenic Zone), Ewart Tp. ... 142
Electrum Prospect (A,B,C and D Zones), Ewart Tp. ... 142
Electrum Prospect (P and W Zones), Ewart Tp. ... 143
Elizabeth Gold Mines Ltd. ... 249
Elizabeth Gold Mining Co. Ltd. ... 249
Elizabeth Gold Syndicate ... 249
Elizabeth Prospect, Freeborn Tp. ... 249-250
Ellard, K.G., Occurrence, Stull Lake ... 247
Ellen Occurrence ... 245
Ellies Occurrence, Tisdale Tp. ... 137
Elliot Township ... 127
Elmos Gold Mines Ltd. ... 269, 270
Elora Gold Mines Ltd. ... 162, 163, 164
Elora Mine (Past Producer) ... 162-163
Emily Occurrence, Tp.47 ... 43
Empire Contact Occurrence, Summers Tp. ... 300
Empire Gold Mining and Milling Co. ... 171
Empire Occurrence, Bristol Tp. ... 124
Endross Consolidated Mines Ltd. ... 131
Endross Occurrence, Hislop Tp. ... 131
English River Gold Mining Co. Ltd., The ... 293
Enrich Occurrence, Bristol Tp. ... 124
Erie Canadian Mines Ltd. ... 126, 289
Errington, Jos. ... 169
Errington and Greenland ... 183
Errington Prospect ... 169
Errington Township ... 265-271
Esther Occurrence, Shaw Tp. ... 136
Estelle, August ... 291
Eva Township ... 271-273, 298
Evans Occurrence, Turnbull Tp. ... 137
Ewart Township ... 142-145, 237
Excello Mines Ltd. ... 88

Fairburn, W.H. ... 295
Fairlie Township ... 220-222, 244
Falconbridge Nickel Mines Ltd. ... 116
Falconbridge Occurrence, Cody Tp. ... 126
Farquhar Occurrence, Tp.28, R.26 ... 42
Faulkenham Lake Gold Mines Ltd. ... 187, 191
Faulkenham Lake Prospect, Baird Tp. ... 187
Favourable Lake Mining and Exploration Co. Ltd. ... 234
Faymar Mine (Past Producer) ... 63-64
Faymar Porcupine Gold Mines Ltd. ... 64
Fidelity Mining Investments Ltd. ... 251

Page

Fisher, A. ... 300
Fisher, J. ... 290
Fisher Occurrence ... 301
Fish Island Occurrence ... 242
Fishtail Point Occurrence ... 246
Flat Lake Gold Mines Ltd. ... 186
Flint Rock Mines Ltd. ... 234
Floregold Occurrence ... 245
Flynn Occurrence, Ogden Tp. ... 135
Foley and O'Brien ... 97
Foley Gold Mines Co. of Ontario Ltd. ... 254
Foley Mine (Past Producer) ... 253-254
Foley-O'Brien Corp. Ltd. ... 97, 124
Foley-O'Brien Placer Occurrence, Bristol Tp. ... 124
Foley-O'Brien Prospect ... 97
Foley Syndicate ... 254
Folger Hammond Gold Reef Mines Co. ... 257
Follansbee Red Lake Occurrence, Dome Tp. ... 244
Forgie Township ... 145-146, 237
Forneri, S.S. ... 179
Fornieri Occurrence ... 241
Forsyth Mines Ltd. ... 199
Forsyth Prospect, Bateman Tp. ... 199
Fort Hope Consolidated Gold Mines Ltd. ... 232
Fort Hope Mines Ltd. ... 232
Foster, J.J. ... 184
Fournier Occurrence, Carscallen Tp. ... 125
Fox Occurrence, McComber Tp. ... 299
Francis, A.B. ... 52
Francoeur Mines Ltd. ... 143, 144
Francoeur Occurrence, Ewart Tp. ... 237
Franklin Gold Mines (1936) Ltd. ... 150
Franklin Gold Mining Co. Ltd. ... 150
Freeborn Township ... 249-250, 261
Frenchman Island Occurrence ... 240
Frobisher Occurrence ... 241
Frontier Red Lake Gold Mines Ltd. ... 228
Fulford Township ... 273
Fuller, A.S. ... 98
Fuller Mine (Past Producer) ... 97-98
Furness Gold Mines Ltd. ... 88

Gabbro Occurrence, McCool Tp. ... 132
Galbraith Township ... 18-19, 42
Galbraith Township Occurrence ... 42
Ganley Claim ... 27
Gardnar, W. ... 153
Gardner Mines Ltd. ... 71
Garrcon Mines Ltd. ... 69
Garrcon Prospect ... 69
Garrison Creek Mines Ltd. ... 128
Garrison Creek Occurrence, Garrison Tp. ... 128
Garrison Development Syndicate ... 127
Garrison-Harbour Occurrence, Garrison Tp. ... 128
Garrison Township ... 68-70, 127-128
Garthack Mining Co. Ltd. ... 136
Garthack Occurrence, Thackeray Tp. ... 136
Gatensburg, E. ... 179
Gauthier, E., et al. ... 123
Gautier Occurrence, Glass Tp. ... 237
Geo-Technical Development Co. Ltd. ... 283
German Township ... 129
Germerica Mining Co. Ltd. ... 162
Ghostmount Occurrence, Holloway Tp. ... 131
Giant Gold Co. Ltd. ... 163
Giant Prospect ... 163
Gibson Occurrence, Turnbull Tp. ... 137
Gilchrist, F.W. ... 150
Gillies Lake Mine (Past Producer) ... 98-99
Gillies Lake-Porcupine Mines Ltd. ... 99
Glass Reef Gold Mining Co. of Lake Manitou Ltd. ... 167
Glass Reef Prospect ... 166-167
Glass Township ... 146-149, 237-238
Glendinning, G. ... 294
Godbeau Porcupine Mines Ltd. ... 91
Godfrey Township ... 129
Godson Lake Occurrence ... 241
Gold Centre Mines Ltd. ... 92
Gold City Porcupine Mines Ltd. ... 121
Gold Coin Occurrence, Glass Tp. ... 237
Gold Coin Occurrence, Guibord Tp. ... 129
Gold Creek Occurrence ... 242
Gold Crescent Mining and Exploration Co.
of Ontario, The ... 255
Gold Eagle Gold Mines Ltd. ... 209, 210
Gold Eagle Mine (Past Producer) ... 209, 210
Gold Eagle Syndicate ... 209
Golden Algoma Mines Ltd. ... 24
Golden Arrow Mines Ltd. ... 74
Golden Arrow Mining Co. Ltd. ... 74
Golden Arrow Prospect ... 73-74
Golden Crescent Mine (AD2) ... 255
Golden Crescent Prospect ... 254-255
Golden Croesus Mines Ltd. ... 70
Golden Eagle Occurrence ... 241

Page

Golden Hecla Mines Syndicate ... 298
Golden Hope Mines Ltd. ... 232
Golden Hope Prospect ... 232
Golden Horn Mine (Past Producer) ... 145-146
Golden Reef Occurrence ... 242
Golden Reed Mining Co. ... 28
Golden Reed Prospect ... 28
Golden Star Consolidated Mines Ltd. ... 256
Golden Star Mine (Past Producer) ... 255-256
Golden Star Mining and Exploration Co. of
  Ontario Ltd. ... 255, 256
Golden Whale property ... 175
Golden Winner Occurrence ... 239
Gold Frontier Mines Ltd. ... 228
Gold Frontier Prospect, Todd Tp. ... 228-229
Goldhawk Prospect ... 51-52
Goldhawk Porcupine Mines Ltd. ... 52
Gold Hill Co. ... 152
Gold Hill Gold Mine, Kirkup Tp. ... 152
Gold Hill Prospect, Kirkup Tp. ... 152
Gold Lands Syndicate of Algoma ... 38
Gold Moose Occurrence, Van Horne Tp. ... 239
Gold Mountain Occurrence ... 242
Goldorel Mining Co. Ltd. ... 259
Gold Panner Mining Co. of Ontario Ltd. ... 174
Gold Panner Prospect ... 174
Gold Pyramid Mining Co. of Larder Lake Ltd., The ... 70
Gold Pyramid Prospect ... 70
Gold Quill Mines Ltd. ... 84
Gold Quill Prospect ... 83-84
Goldray Mines Ltd. ... 209, 210
Gold Rock Mining and Milling Co. Ltd. ... 240
Gold Rock Mining Syndicate Ltd. ... 167
Gold Rock Occurrence ... 240
Gold Rock Prospect ... 167
Gold Standard G340 Occurrence ... 240
Gold Standard HW271 Occurrence ... 239
Gold Standard Mining Co. ... 239, 240
Goldstein, H., Occurrence, Bristol Tp. ... 124
Goldwood Gold Mines Ltd. ... 159
Golsil Mines Ltd. ... 234
Gooderham, C. ... 154
Goodman-Whalen Occurrence, Tp.49 ... 44
Gordon Occurrence, Van Horne Tp. ... 239
Girham Township ... 274, 298
Goudreau Gold Mines Ltd. ... 24
Goudreau Mine (Past Producer) ... 24
Goward Gold Mines Ltd. ... 136
Grace Gold Mining Co. Ltd. ... 29
Grace Mine (Past Producer) ... 29
Grace Mining Co. Ltd. ... 180
Grace Prospect ... 180
Gray Occurrence ... 301
Great Golconda Gold Mines Ltd. ... 164
Great Granite Occurrence, Class Tp. ... 237
Great Northern Mining Co. Ltd. ... 31
Great Northern Mining Exploration and Development
  Corp. of Ontario Ltd. ... 30
Green, J. ... 254
Green, J.J. ... 90, 298
Green Lake Gold Mines Ltd. ... 282
Greenoaks Mines Ltd. ... 283
Greenoaks Prospect ... 283
Grimston, Digby ... 68, 70
Grimston Porcupine Gold Mines Ltd. ... 70
Grimston Prospect ... 69-70
Guibord Township ... 70-71, 129-130
Guinea Occurrence, Beatty Tp. ... 123
Gui-Por Gold Mines Ltd. ... 129
Gui-Por Northern Occurrence, Guibord Tp. ... 129
Gui-Por No. 2 Occurrence, Guibord Tp. ... 129
Gui-Por No. 3 Occurrence, Guibord Tp. ... 129
Gulch Mines Ltd. ... 273
Gunnar Gold Mines Ltd. ... 129
Gunnar Mines Ltd. ... 131
Gunnar Mining Ltd. ... 74, 173
Gunnar Occurrence, Hislop Tp. ... 131
Gunnex Ltd. ... 173
Gutcher Occurrence, Tp.28, R.26 ... 43
Gwyn Beardmore Mines Ltd. ... 299
Gwyn Beardmore Occurrence, McComber Tp. ... 299

Haggquist, D. ... 135
Haines Township ... 274-275, 298
Halkirk Township ... 261
Hallnor Mine (Producer) ... 115-116
Hallnor Mines Ltd. ... 116
Hammell, J. ... 219
Hammond Gold Reef Mining Co. Ltd., The ... 257, 258
Hammond Reef Consolidated Mining Co. Ltd. ... 258
Hammond Reef Mine (Past Producer) ... 257-258
Hanalda Gold Mines Ltd. ... 217
Hans Lundberg Ltd. ... 134
Hansen, C.K., Occurrence ... 246
Hansen-McDonnell Occurrence, Guibord Tp. ... 129

Page

Hard Rock Gold Mines Ltd. ... 262
Hard Rock Mine (Past Producer) ... 262-263
Harker Gold Mines Ltd. ... 72, 219
Harker Prospect ... 72
Harker Township ... 71-73, 130
Harkness-Hays Gold Mining Co. Ltd. ... 287
Harkness-Hays Mine (Past Producer) ... 287
Harlight Gold Mines Ltd. ... 73
Harlight Prospect ... 72-73
Harold Lake Mine (Past Producer) ... 248
Harris Consolidated Mines Ltd. ... 91
Hartman Township ... 238
Harvey, A. ... 258
Harvey Syndicate ... 186
Hasaga Mine (Past Producer) ... 223-224
Hasaga Gold Mines Ltd. ... 191, 224
Hastings Occurrence, Garrison Tp. ... 128
Hatmaker Lake Occurrence ... 242
Hattie Gold Mines Ltd. ... 45
Hattie Gold Mining Co. Ltd. ... 45
Havilah Gold Mines Ltd. ... 19
Havilah Mine (Past Producer) ... 18
Hawkins Township ... 19, 42
Haycock, E.B. ... 167
Haycock Township ... 149-150, 238
Haydon Gold Mines Ltd. ... 85
Hay Island Occurrence ... 242
Headlight Gold Mining Co. of Ontario Ltd., The ... 260
Headlight Mine ... 260
Headwater Mines Ltd. ... 48, 123
Headway Red Lake Gold Mines Ltd. ... 244
Headway Red Lake Occurrence, Balmer and Dome Tps. ... 244
Headway Red Lake Occurrence, Heyson Tp. ... 244
Heard, D., Occurrence, Jessop Tp. ... 132
Helder Lake Occurrence ... 245
Helmer, J., Occurrence, Murphy Tp. ... 134
Hendrickson, F., Occurrence, Bristol Tp. ... 124
Hepburn Township ... 130
Herbert, A., Occurrence, Godfrey Tp. ... 129
Herdt Claim, Turnbull Tp. ... 137
Hewitt Gold Mining Co. ... 299
Hewitt-Ziyone Occurrence ... 245
Heyson Red Lake Occurrence, Heyson Tp. ... 245
Heyson Township ... 222-225, 244-245
Hiawatha Gold Mines Ltd. ... 20
Hiawatha Mine (Past Producer) ... 20
High Lake Occurrence, Ewart Tp. ... 237
Hildreth, J. ... 150
Hill, D. ... 135
Hill Gold Mining Co. Ltd. ... 47
Hill-Haggquist Occurrence, Robb Tp. ... 135
Hillside Gold Mines Ltd. ... 30
Hillside Mines Ltd. ... 30
Hillside Prospect ... 29-30
Hisbert Mines Ltd. ... 131
Hiskerr Gold Mines Ltd. ... 131
Hiskerr Occurrence, Hislop Tp. ... 131
Hislop Gold Mines Ltd. ... 74
Hislop Mines Ltd. ... 74
Hislop Occurrence, Guibord Tp. ... 130
Hislop Prospect ... 74
Hislop Township ... 73-77, 131
Hocking, W.H. ... 28
Holcorp Mines Ltd. ... 131
Holcorp Occurrence, Hislop Tp. ... 131
Holdsworth Gold Mining Co. Ltd. ... 23
Holdsworth Prospect ... 23
Hollinger, J. ... 68
Hollinger Consolidated Gold Mines Ltd. ... 38, 52, 68
  70, 74, 76, 77, 84, 99, 100, 107
  109, 125, 126, 129, 130, 132, 135, 191, 207, 289
Hollinger Mine (Past Producer) ... 99-100
Hollinger Mines Ltd. ... 76, 93, 99-100, 108, 137
Hollinger Occurrence, German Tp. ... 129
Hollinger Occurrence, Hoyle Tp. ... 132
Hollinger Placer Occurrence, Tisdale Tp. ... 137
Holloway Township ... 77-78, 131
Holmes, M.M. ... 150
Homestake Mining Co. ... 135, 262
Homestake Occurrence ... 242
Honey Bee Occurrence ... 245
Hopkins, P. ... 175
Hopkins, P.E. ... 40
Hopkins, P.E., Occurrence, Irwin Tp. ... 298
Horse Shoe Mines Ltd. ... 159
Howey, Cochenour and Willans, Holloway Tp. ... 131
Howey Consolidated Mines Ltd. ... 225
Howey Gold Mines Ltd. ... 51, 189, 225, 273
Howey Mine (Past Producer) ... 224-225
Hoyle Gold Mines Ltd. ... 117, 126
Hoyle Mine (Past Producer) ... 116-117
Hoyle Mines Ltd. ... 117, 130
Hoyle Mining Co. Ltd. ... 117, 131, 133
Hoyle Occurrence, Bristol Tp. ... 124
Hoyle Occurrence, Hoyle Tp. ... 132

Page

Hoyle Township ... 132
Hubert Property, Bristol Tp. ... 123
Huddlestone, J. ... 53
Huddlestone, J., Mine (Past Producer) ... 53
Hudson Bay Mining Co., The ... 49
Hudson Patricia Gold Mines Ltd. ... 204
Hudson-Patricia Mine (Past Producer) ... 204
Hughes Occurrence, Turnbull Tp. ... 137
Hughes Porcupine Mines Ltd. ... 117, 120
Hugh-Pam Mine (Past Producer) ... 117-118
Hugh-Pam Porcupine Mines Ltd. ... 117, 118
Humlin, J. ... 222
Humlin Prospect, Fairlie Tp. ... 221-222
Humlin Red Lake Mines Ltd. ... 221, 222
Hunter Group Occurrence ... 243
Huronian Belt Co. Ltd. ... 219
Huronian Belt Occurrence, Tp.48 ... 43
Huronian Mining Co. of Ontario, The ... 281
Hurst, Frank ... 50
Hutchinson, A. ... 258
Hutchinson Township ... 250
Hutchison Lake Gold Mines Ltd. ... 273
Hydra Explorations Ltd. ... 54

Imperial Gold Mines Ltd. ... 164
Imperial Occurrence, Glass Tp. ... 237
Imperial Reserve Mines Ltd. ... 130
Imperial Reserve Occurrence, Harker Tp. ... 130
Independence Mine (Past Producer) ... 248-249
Independence Mining and Development Co. Ltd. ... 249
Indian Joe Occurrence, Glass Tp. ... 237
Indian Reserve 27 ... 241
Indian Reserve 38B ... 238
Indian Reserve No. 64 ... 225-226
Inore Gold Mines Ltd. ... 227
Inore Prospect, McDonough and Bateman Tps. ... 226-227
Insgar Mines Ltd. ... 127, 128
Inspiration Mining and Development Co. Ltd. ... 128
Inspiration Occurrence, Garrison Tp. ... 128
International Silver Mines Ltd. ... 58
Interprovincial Dredging and Mining Co. Ltd. ... 198
Interstate Consolidated Mining Co. ... 161
Iris Gold Mines Ltd. ... 130
Iris Occurrence, Harker Tp. ... 130
Irvin Porcupine Gold Mines Ltd. ... 67
Irwin Township ... 275-278, 298
Isabella Prospect ... 256

J.O.41 Gold Mining Co. of Rainy River Ltd. ... 255
Jack,T., Occurrence, Côté Tp. ... 126
Jack,T., Occurrence, Jamieson Tp. ... 132
Jackfish Lake Mining Co. Ltd., The ... 281
Jack Lake Gold Mining Co. Ltd. ... 251, 294
Jack Lake Mines Ltd. ... 251
Jack Lake Prospect, McCaul Tp. ... 250-251
Jackson, W.S. ... 287
Jackson-Manion Mine (Past Producer) ... 205
Jackson-Manion Mines Ltd. ... 205
Jackson Syndicate ... 250
Jaffray Township ... 151, 238
Jalda Gold Mines Ltd. ... 218
James and Whalen ... 88
Jamieson, G. ... 136
Jamieson, G., Occurrence, Claims P6010 etc., Robb Tp. ... 135
Jamieson, G., Occurrence, Claims P6501 etc., Robb Tp. ... 135
Jamieson, G., Occurrence, Jamieson Tp. ... 132
Jamieson, G., Occurrence, Robb Tp. ... 136
Jamieson Exploration Co. ... 125
Jamieson Occurrence, Byers Tp. ... 125
Jamieson Township ... 132
Jarvela Occurrence, McComber Tp. ... 299
Jason Mine (Past Producer) ... 230-231
Jason Mines Ltd. ... 231
Jasper Porcupine Mines Ltd. ... 64
Jasper Prospect ... 64
Jessop Township ... 132
J-M Consolidated Gold Mines Ltd. ... 205
Jodelo Gold Mines Ltd. ... 65
Jodelo Prospect ... 65
Johnson, T.W. ... 284
Johnson, Tom, Occurrence, Dorothea Tp. ... 298
Johnson-Fisher Occurrence ... 300
Johnston, C.S. ... 24
Johnston Brothers ... 34
Johnston Occurrence ... 246
Jomac Gold Syndicate Ltd. ... 277
Jones, C. ... 154
Jones, John ... 60
Jones-Porter Mines Ltd. ... 60
Jorsco Explorations Ltd. ... 293, 299
Jorsco Occurrence, Leduc Tp. ... 299
Jowsey, R.J., and Associates ... 161
Jowsey, R.J., Mining Co. Ltd. ... 220

Page

Jowsey Denton Gold Mines Ltd. ... 50
Jowsey Prospect ... 50-51
Jubilee Gold Mining and Development Co. of Ontario Ltd. ... 162
Jupiter Mines Ltd. ... 101
Junior Frood Mines Ltd. ... 290
Jutten Township ... 278

K.L. Exploration Co. Ltd. ... 276
Kalibak Occurrence - North Showing, Lizar Tp. ... 42
Kalibak Occurrence - South Showing, Lizar Tp. ... 42
Kam-Kotia Mines Ltd. ... 193, 227
Karl Springer Exploration Co. Ltd. ... 298
Kashabowie Mining Syndicate Ltd. ... 298
Kaymac Gold Mines Ltd. ... 210
Kaymac Prospect, Dome Tp. ... 210
Kayorum Gold Mines Ltd. ... 137
Kayorum Occurrence, Tisdale Tp. ... 137
Keevil Mining Corp. ... 291, 300, 301
Keller Occurrence ... 302
Kelore Gold Mines Ltd. ... 75
Kelore Occurrence, Guibord Tp. ... 130
Kelore Prospect ... 75
Kelrowe Gold Mines Ltd. ... 75
Kelwren Gold Mines Ltd. ... 75
Kenbro Sturgeon Gold Mines Ltd. ... 264
Kendall and Whiting ... 146
Kenelda Gold Mines Ltd. ... 217
Kenilworth Mines Ltd. ... 83, 85
Kenland Gold Mines Ltd. ... 159
Kenmore Gold Mines Ltd. ... 299
Kennedy, R., Occurrence, Jessop Tp. ... 132
Kennco Explorations (Canada) Ltd. ... 130
Kenopo Mining and Milling Co. Ltd. ... 143
Kenopo Prospect (Conglomerate Showing), Ewart Tp. ... 143
Kenopo Prospect (Electrum Pits), Ewart Tp. ... 144
Kenora Mines Ltd. ... 148
Kenora Prospectors and Miners Ltd. ... 146, 147
Kenricia Gold Mines Ltd. ... 183
Kenricia Mine (Past Producer) ... 182-183
Kensull Occurrence, Shaw Tp. ... 136
Kenty, J., Occurrence ... 241
Kenty Prospect ... 292-293
Kenwest Mines Ltd. ... 161, 240
Kerr Lake Mining Co. Ltd., The ... 93, 295
Kerry Gold Mines Ltd. ... 281
Kerry Mine (Past Producer) ... 280-281
Kimasca Occurrence, Thomas Tp. ... 136
Kimasca Porcupine Mines Ltd. ... 136
Kinasco Exploration and Mining Ltd. ... 290, 291
Kindree, P.A., Occurrence, Bristol Tp. ... 124
King Midas Occurrence, Munro Tp. ... 134
Kirk Gold Mines Ltd. ... 19
Kirk Gold Prospect ... 18
Kirkup Township ... 151-152, 238
Kitchi-Gammi Mining Co. Ltd. ... 26
Knapp Occurrence ... 239
Knox Lake Prospect ... 276
Kokotow, A. ... 133
Kokotow Occurrence, Michaud Tp. ... 133
Konasco Exploration and Mining Ltd. ... 261
Konigson, Edward, Occurrence ... 240
Koval-Ohman Occurrence ... 245
Kozak Prospect ... 24-25
Kremzar and Burwash ... 40
Kremzar Gold Mines Ltd. ... 40
Kremzar Prospect ... 39-40
KRNO Mines Ltd. ... 290, 291, 301

Labrosse Occurrence, Turnbull Tp. ... 137
Lac Teck Gold Mines Ltd. ... 298
Lac Teck Occurrence, Irwin Tp. ... 298
Lakefield Porcupine Mines Ltd. ... 52
Lake Godin Occurrence, Tp.48 ... 44
Lake Harold Gold Mines Co. Ltd., The ... 248
Lake Head Gold Mines Ltd. ... 298
Lake Head Occurrence, Gorham Tp. ... 298
Lake Kozak Mines Ltd. ... 25
Lake Lingman Gold Mining Co. Ltd. ... 235
Lakelyn Mines Ltd. ... 235
Lake-Osu Mines Ltd. ... 43, 296
Lake Osu Occurrence, Tp.29, R.23 ... 43
Lake-Osu Prospect ... 296-297
Lakeport Gold Mines Ltd. ... 170
Lake Rowan (1945) Mines Ltd. ... 229
Lake Rowan Gold Mines Ltd. ... 229
Lake Rowan Prospect, Todd Tp. ... 229
Lake Shebandowan Occurrence, Haines Tp. ... 298
Lake Shore Mines Ltd. ... 139, 262, 263, 264, 268
Lake Superior Mining Corp. Ltd. ... 286
Lally Gold Mines Ltd. ... 137
Lally Occurrence, Turnbull Tp. ... 137
Langmuir property ... 83
Langridge, W. ... 293
Lansdowne Minerals Ltd. ... 246

Page

La Palme Porcupine Mines Ltd. 119
Larchmont Mines Ltd. 125
Larchmont Occurrence, Carscallen Tp. 125
La Roche Mines Ltd. 62
La Rose Rouyn Mines Ltd. 56, 285
La Salle, R., Occurrence, Carman Tp. 125
Lascelles and Mann 79
Lasikauf Occurrence, Côté Tp. 126
Lassie Red Lake Occurrence, Balmer Tp. 244
Last Chance Occurrence 240
Lat. 48°00' - Long. 85°15' 288-289, 300
Lat. 48°15' - Long. 87°15' 300-301
Lat. 48°15' - Long. 90°45'.......... 261, 301
Lat. 48°30' - Long. 86°45' 289-290
Lat. 48°30' - Long. 90°30' 301
Lat. 48°30' - Long. 92°30' 253-257, 261
Lat. 48°45' - Long. 79°45' 138
Lat. 48°45' - Long. 90°00' 301
Lat. 48°45' - Long. 91°15' 257-258
Lat. 48°45' - Long. 92°30' 259-260
Lat. 49°00' - Long. 87°00' 301
Lat. 49°00' - Long. 87°15' 290-291, 301
Lat. 49°00' - Long. 91°15' 239
Lat. 49°00' - Long. 93°00' 239-240
Lat. 49°00' - Long. 93°15' 159-160, 240
Lat. 49°00' - Long. 93°30' 261
Lat. 49°00' - Long. 93°45' 240
Lat. 49°15' - Long. 92°15' 240
Lat. 49°15' - Long. 92°30' 160-166, 240
Lat. 49°15' - Long. 92°45' 166-169, 240-241
Lat. 49°15' - Long. 93°00' 169, 241
Lat. 49°15' - Long. 93°30' 169-172, 241
Lat. 49°15' - Long. 93°45' 172-174, 241
Lat. 49°15' - Long. 94°30' 241
Lat. 49°30' - Long. 86°30' 291-292
Lat. 49°30' - Long. 92°15' 174-176
Lat. 49°30' - Long. 92°30' 176-177, 241
Lat. 49°30' - Long. 92°45' 177-178, 241
Lat. 49°30' - Long. 93°00' 178-179, 241
Lat. 49°30' - Long. 93°15' 179-180, 241-242
Lat. 49°30' - Long. 94°15' 181-182, 242
Lat. 49°30' - Long. 94°30' 182-183, 242
Lat. 49°30' - Long. 94°45' 242
Lat. 49°30' - Long. 95°00' 183-184, 242
Lat. 49°45' - Long. 87°30' 292-293
Lat. 49°45' - Long. 91°45' 184, 186, 242
Lat. 49°45' - Long. 92°00' 242-243
Lat. 50°00' - Long. 90°30' 293-295, 301
Lat. 50°00' - Long. 91°30' 245
Lat. 50°15' - Long. 86°45' 301
Lat. 50°15' - Long. 87°00' 295-297, 301
Lat. 50°15' - Long. 87°45' 301
Lat. 50°15' - Long. 94°00' 245
Lat. 50°30' - Long. 88°45' 302
Lat. 50°30' - Long. 95°00' 245
Lat. 51°00' - Long. 90°30' 245
Lat. 51°00' - Long. 91°30' 245
Lat. 51°15' - Long. 92°15' 230-231, 245-246
Lat. 51°15' - Long. 92°45' 246
Lat. 51°30' - Long. 88°00' 232
Lat. 51°30' - Long. 91°15' 246
Lat. 52°15' - Long. 87°30' 246
Lat. 52°15' - Long. 87°45' 246
Lat. 52°15' - Long. 92°45' 232-233
Lat. 52°30' - Long. 90°15' 246
Lat. 52°45' - Long. 93°30' 233-234
Lat. 53°00' - Long. 92°30' 246
Lat. 53°00' - Long. 92°30' 246
Lat. 53°00' - Long. 92°45' 246
Lat. 53°00' - Long. 93°15' 246
Lat. 53°15' - Long. 92°00' 246
Lat. 53°45' - Long. 92°45' 234-235
Lat. 54°00' - Long. 91°15' 246
Lat. 54°15' - Long. 91°30' 247
Lat. 54°15' - Long. 92°15' 247
Lat. 54°15' - Long. 92°30' 247
Lat. 54°30' - Long. 91°15' 235-236
Lauber, R.C. 285
Laurentian Mine (Past Producer) 164
Laurentian Mining Co. Ltd. 164
Laval Township 238
Laval Township Occurrence, Laval Tp. 238
Lawrence Gold Mines Ltd. 298
Lawrence-McKirdy Occurrence, Dorothea Tp. 298
Lawrence McKirdy Syndicate 298
League Occurrence, Van Horne Tp. 239
Leduc Occurrence, Turnbull Tp. 137
Leduc Township 278-279, 299
Leemac Occurrence, Bateman Tp. 244
Lefebvre, G.A., Occurrence, Jessop Tp. 132
Leitch Gold Mines Ltd. 271, 272
Leitch Mine (Past Producer) 271-272
Lenihan, Joseph 58
Le Roy Occurrence, Tp.29, R.23 43
Leslie, H.T. 286

Page

Levett and Rialta Co. 137
Levett and Rialta Occurrence, Turnbull Tp. 137
Lewis Occurrence, Dome Tp. 244
Lightning River Gold Mines Ltd. 127
Lightning River Occurrence, Egan Tp. 127
Lightning River Occurrence, Holloway Tp. 131
Lightval Mines Ltd. 130
Lightval Occurrence, Harker Tp. 130
Lindsay Exploration Ltd. 251
Lindsley Township 265, 279-280
Lingman, O.J., Occurrence 246
Lingman Lake Gold Mines Ltd. 235
Lingman Lake Prospect 234-235
Linton Occurrence, Garrison Tp. 128
Little Long Lac Gold Mines Ltd., The 139, 200, 211
214, 216, 217, 218, 219
224, 226, 262, 263, 266, 268
Little Long Lac Mine (Past Producer) 266
Little Master Prospect 164-165
Lizar Township 20, 42
Lobanor Gold Mines Ltd. 131, 282
Lobanor Occurrence, Holloway Tp. 131
Lobanor Prospect 281-282
Lochabie Mines Ltd. 37
Lockhart, A. 254
Lone Pine Occurrence, Aubrey Tp. 237
Longacre Longlac Gold Mines Ltd. 270
Longbeard Gold Mines Syndicate Ltd. 280
Longbeard Prospect 280
Longlac Lagoon Gold Mines Ltd. 269, 270
Long Lac Superior Standingstone Occurrence,
Summers Tp. 300
Longworth, W. 291, 300
Longworth, W.L. 288
Longworth Occurrence 300
Louanna Gold Mines Ltd. 296
Lower Seine Mining Co. Ltd. 256
Lucky Ben Occurrence, Beatty Tp. 123
Lucky Coon Gold Mining Co. Ltd. 257
Lucky Coon Prospect 257
Luisakoff, P. 135
Lundberg Occurrence, Mountjoy Tp. 134
Lun-Echo Mines Ltd. 139
Lun-Echo Prospect, Echo Tp. 139
Lunward Gold Mines Ltd. 139
Lyons, A.G. 106

McAree Township 238
Macassa Gold Mines Ltd. 274, 289
Macassa Occurrence, Lat. 48°00' - Long. 85°15' 300
McAuley, J.L. 50
McAuley, T. 50
McBride Claims, Hislop Tp. 131
McBine Porcupine Prospect 65-66
McCallum, F., Occurrence, Ewart Tp. 237
McCallum Red Lake Mines Ltd. 200
McCarthy-Webb Goudreau Mines Ltd. 39
McCaul Township 250-251
McClinton, J.B., Occurrence, Bristol Tp. 124
McComber Township 280-299
McCool Township 132
McCowan Township 132
McCuaig Red Lake Gold Mines Ltd. 211
McCuaig Red Lake Prospect 211
McCullagh Township 226
McDermott Occurrence, Holloway Tp. 131
Macdonald, Maidens 56
McDonell, D.J., Occurrence, Bristol Tp. 124
McDonough and Bateman Tps. 226-227
MacDougall Occurrence, Whitney Tp. 138
MacDougall Porcupine Gold Mines Ltd. 138
Mace Gold Mines Ltd. 108, 109
McEnaney Prospect 84
McFadden Occurrence, Tp.48 44
MacFie Township 153, 238
MacFie Township Occurrence, MacFie Tp. 238
McFinley Prospect, Bateman Tp. 199-200
McFinley Red Lake Gold Mines Ltd. 200
Machin, I.G. 149
Machin Mines Ltd. 149
McIntyre Mine (Producer) 101-102
McIntyre Occurrence, Holloway Tp. 131
McIntyre Porcupine Mines Ltd. 92, 101, 110
121, 131, 132, 296
McIntyre Prospect, Tully Tp. 109-110
Macjoe Sturgeon Gold Mines Ltd. 277
Macjoe Sturgeon Prospect 277
McKay-Wilson-Harris-Paul Occurrence, Bristol Tp. 124
McKellar, P. 288
McKellar, Peter 281
MacKenzie, David 50
MacKenzie, W. 154
McKenzie Creek Occurrence, Hartman Tp. 238
McKenzie Mine (Past Producer) 211-212
McKenzie Occurrence, McComber Tp. 299

Page

McKenzie Red Lake Gold Mines Ltd. 212, 213
Mackey, J.J. 30
Mackey Point Gold Mines Ltd. 30
Mackey Point Prospect 30-34
McKinley and Molesky, Bristol Tp. 124
McKinley-Darragh-Savage Mines of Cobalt Ltd. 101
Macklem Township 78-79, 132-133
McLaren-Porcupine Gold Mines Ltd. 66
McLaren-Porcupine Mine (Past Producer) 66
MacLeod and Cockshutt 263
MacLeod-Cockshutt Gold Mines Ltd. 264, 269
MacLeod-Cockshutt Mine (Past Producer) 263
MacLeod Mosher Gold Mines Ltd. 264, 268, 269
McMahon, J.E. 62
McMahon Occurrence, Tp.26, R.26 42
McManus Occurrence, Dome Tp. 244
McMarmac Mine (Past Producer) 212-213
McMarmac Red Lake Gold Mines Ltd. 210, 213
McMartin, J. Bruce 284
McNaughton Township 227-228
McNeely Red Lake Holdings Ltd. 212
McPhillips, F. 258
McQuaig, D. 290
McWatters Gold Mines Ltd. 52
Madsen Mine (Producer) 187-188
Madsen Red Lake Gold Mines Ltd. 188, 223
Madson Occurrence 301
Magdalena Occurrence 241
Magino Gold Mines Ltd. 39
Magnacon Mines and Oils Ltd. 289
Magnet Consolidated Mine (Past Producer) 267
Magnet Consolidated Mines (1936) Ltd. 267
Magnet Lake Gold Mines Ltd. 267
Maisondor Occurrence, Meath Tp. 42
Malga Porcupine Gold Mines Ltd. 89
Mallen Red Lake Gold Mines Ltd. 244
Mallen Red Lake Occurrence, Baird Tp. 244
Maloney, R. 283
Maloney Sturgeon Gold Mines Ltd. 283
Maloney Sturgeon Prospect 283-284
Mamen Lake Occurrence 245
Mammoth Porcupine Gold Syndicate 138
Mammoth Porcupine Mines Ltd. 138
M & M Porcupine Gold Mines Ltd. 89
Mangus Lake Occurrence 240
Manitou Island Occurrence 240
Mann Consolidated Silver Mines Ltd. 64
Manross Township 153-155
Manson, Victor 52
Manxman Gold Mining Co. 26
Manxman Prospect 26
Maple Creek Rouyn Mining Syndicate Ltd. 299
Marboy Mines Ltd. 213
Marbuan Gold Mines Ltd. 57
March Gold Mines Ltd. 56
Marchaud Occurrence, Michaud Tp. 133
Marcus Gold Mines Ltd. 208
Marcus Gold Mines Ltd. 244
Marcus Occurrence, Balmer Tp. 244
Margaret Mines Ltd. 213
Margaret Red Lake Mines Ltd. 213
Margaret Red Lake Mines (1940) Ltd. 210
Mariposa Mining Co. Ltd. 32
Markay Mining Corp. Ltd. 136
Markay Occurrence, Thomas Tp. 136
Markes Occurrence, Tp.48 44
Martin-Bird Gold Mines Ltd. 131
Martin-Bird Occurrence, Hislop Tp. 131
Martin-McNeely Mines Ltd. 127, 206, 215
Maryjo Lake Occurrence 241
Mascioli, D.J., Occurrence, Deloro Tp. 127
Mascotte Occurrence, Phillips Tp. 239
Matachewan Consolidated Gold Mines Ltd. 184
Matheson Gold Ltd. 134
Matheson Mining Syndicate 134
Matheson Township 133
Maylac Gold Mines Ltd. 273
Maylac Mine (Past Producer) 273
Mayot or Treadwell Property, Beatty Tp. 123
Meath Township 42
Megan Occurrence 301
Melgund Township 238
Meridian Bay Occurrence 241
Meridian Occurrence, Holloway Tp. 131
Metals Development Co. Ltd. 204
Michael Syndicate 44
Michael-Webb Occurrence, Tp.47 43
Michaud Porcupine Mines Ltd. 133
Michaud Porcupine Occurrence, Michaud Tp. 133
Michaud Township 133
Midcamp Mines Ltd. 105, 106
Mid-Canada Exploration Co. Ltd. 264
Middle Bay Mines Ltd. 192
Middle Bay Prospect, Ball Tp. 192
Mikado Consolidated Mines Ltd. 148

Page

Mikado Gold Mining Co. Ltd. 148
Mikado Mine (Past Producer), Glass Tp. 147-148
Mikado Reef Location 242
Miles (Red Lake) Mines Ltd. 192
Miller, J. 296
Miller, W.H., Occurrence, Cody Tp. 126
Miller Group-Conwest Option Occurrence,
  Pickerel Tp. 239
Millerton Gold Mines Ltd. 100
Mills Occurrence, Heyson Tp. 245
Mills Red Lake Gold Mines Ltd. 245
Milmac Mines Ltd. 43
Milroy-Taylor Occurrence, Pifher Tp. 299
Milton Gold Mines Ltd. 84
Minedel Mines Ltd. 160
Mineral Development Occurrence, Irwin Tp. 298
Mineral Estates Occurrence, Bristol Tp. 124
Mining Corp. of Canada Ltd., The 74, 86, 126, 128
136, 282, 300
  Mining Corp., East Group Occurrence,
    Holloway Tp. 131
  Mining Corp., No. 1 Occurrence, Garrison Tp. 128
  Mining Corp., No. 2 Occurrence, Garrison Tp. 128
  Mining Corp., Occurrence, Cody Tp. 126
Mining Geophysics Corp. Ltd. 134
Minoletti 282
Minto Gold Mines Ltd. 27, 31, 131
Minto Mine (Past Producer) 27, 30-31, 34
Missanaibi Gold Shore Occurrence, Tp.47 43
Mitchell, C.W. 167
Mitchell, J.A. 57
Mitchell, M.S., Occurrence, Ogden Tp. 135
Mitchell, W.S. 57
Monte Cristo Prospect 169-170
Montgomery, H.A., Occurrence, Dorothea Tp. 298
Montgomery-Ackerman Gold Mines Ltd. 298
Moar Occurrence 246
Mobb, Frederick 135
Mobb Occurrence, Playfair Tp. 135
Monarch Occurrence, Glass Tp. 237
Moneta Mine (Past Producer) 102-103
Moneta Porcupine Mines Ltd. 102, 103, 133
Moneta Porcupine Mines Ltd. 160
Monetary Metals Ltd. 221
Moran, J.L., Occurrence 245
Moran Occurrence, Macklem Tp. 133
Morgan Creek Mines Ltd. 130
Morgan Occurrence, Guibord Tp. 130
Morningdale Mines Ltd. 128
Morningdale Occurrence, Garrison Tp. 128
Morrison Occurrence, McComber Tp. 299
Morrison Occurrence, Tp.49 44
Mosher, J. 257
Mosher Long Lac Gold Mines Ltd. 268
Mosher Long Lac Mine (Past Producer) 268-269
Mosher Long Lac Mines Ltd. 139
Moss Gold Mines Ltd. 281
Moss Mines Ltd. 281
Moss Occurrence, Moss Tp. 299
Moss Township 280-282, 299
Mountjoy Township 80, 133-134
Muir Occurrence, Thomas Tp. 137
Mulholland Mines Co. Ltd. 117
Munro and Watson (Golden Whale) 175
Munro Consolidated Mines Ltd. 49
Munro-Croesus Mines Ltd. 81
Munro Mines Ltd. 82, 129
Munro Township 80-82, 134
Murphy Township 134
Murray-Algoma Mining Co. Ltd. 22
Murray-Algoma Prospect 21-22
Murwood Gold Mines Ltd. 161

Nakhodas Mining Co. Ltd., The 64, 98
Nameigos Township 42
Naybob Gold Mines Ltd. 85
Naybob Mine (Past Producer) 85-86
Naybob (1945) Gold Mines Ltd. 85
Neelin-Braggan Occurrence, McComber Tp. 299
Neepawa Gold Mining Co. 168
Neepawa Island Occurrence 242
Neil Prospecting Syndicate 282
Nelson, W.H. 249
New Augarita Porcupine Mines Ltd. 90
New Calumet Mines Ltd. 240
New Dickenson Mines Ltd. 195, 197, 209
New Electra Gold Mines Ltd. 126
New Electra Porcupine Gold Mines Ltd. 133
New Faulkenham Mines Ltd. 187
Newfield Mines Ltd. 128
Newfield Occurrence, Garrison Tp. 128
New Goudreau Gold Mines Ltd. 24
New Hope Porcupine Gold Mines Ltd. 82, 83
New Jason Mines Ltd. 231
New Kelore Mines Ltd. 75

Page

Newlund Mines Ltd. 139, 140
Newlund Prospect, Echo Tp. 139, 140
Newman Occurrence, Heyson Tp. 245
New Mosher Longlac Mines Ltd. 268
Newmont Mining Corp. 217, 234
Newmont Mining Corp. of Canada Ltd. 51
New Northern Gold Belt Gold Mines Ltd. 134
Newray Mines Ltd. 93
Newrich Exploration Ltd. 292
New York and Ontario Gold Mining Co. Ltd. 252
New York Porcupine Gold Mines Ltd. 105, 106
New York Porcupine Mines Ltd. 106
Nickel Offsets Ltd. 110
Niemi, Ray, Occurrence, Southworth Tp. 239
Night Hawk Lake Mining Co. Ltd., The 54
Night Hawk Peninsula Mines Ltd. 52, 54
Nina Occurrence 241
Nipissing Mines Co. Ltd. 84
Nipissing Mining Co. 25
Nipsona Mines Ltd. 299
Nonesuch Occurrence, Glass Tp. 238
Nora Occurrence 242
Noranda Exploration Co. Ltd. 125
Noranda Mines Ltd. 57, 58, 62, 96, 113, 116, 132, 135, 173, 197, 239, 276, 281
Noranda Occurrence, Carman Tp. 125
Noranda Occurrence, Playfair Tp. 135
Norex Property 286
Norgold Mines Ltd. 24
Nor-Penn Occurrence 242
Norsco Mines Ltd. 293
North, M., Occurrence, Carman Tp. 125
North American Gold Corp. 55
Northcrown Porcupine Mines Ltd. 94
North Davidson Mines Ltd. 91
Northern Aerial Canada Golds Ltd. 203
Northern Aerial Minerals Exploration Ltd. 203
Northern Canada Mines Ltd. 278
Northern Canada Prospect 278
Northern Development Co. 165
Northern Empire Mining Co. Ltd. 272
Northern Empire Mines Co. Ltd. 285, 286
Northern Empire Mines Ltd. 300
Northern Gold Belt Mining Co. Ltd. 134
Northern Gold Belt Occurrence, Munro Tp. 134
Northern Gold Co. 152
Northern Gold Reef Ltd. 294
Northern Lights Mines Co. 179
Northern Mines Inc. 178
Northern Queen Occurrence, Zealand Tp. 239
Northern Red Lake Mines Ltd. 256
Northern Turnbull Gold Mines Ltd. 137
Northern Turnbull Occurrence, Turnbull Tp. 137
Northfield Mines Inc 93
Northgate Exploration Ltd. 230
Northolt Mining Corp. Ltd. 245
Northolt Occurrence, Willans Tp. 245
North Rock Explorations Ltd. 234
North Shores Gold Mines Ltd. 288
North Shores Mine (Past Producer) 287-288
North Shores Mines (1936) Ltd. 288
North-Thomson Gold Mines Ltd. 108
North-Thomson Associated Gold Mines Ltd. 108
North Twin Island Occurrence 241
North Whitney Mines Ltd. 118
North Whitney Prospect 118-119
Nortoba Mines Ltd. 264
Norwalk Mining Co. 26
Noseworthy Township 134
Nova-Co Occurrence, Heyson Tp. 245
Nova Scotia Mines of Cobalt Ltd. 102
Novack Occurrence, Deloro Tp. 127
Novell Porcupine Gold Mines Ltd. 88
Novell Prospect 88
Nulac Mines Ltd. 280

O'Brien, M.J., Ltd. 40
Ogden, Thomas, Occurrence, Ogden Tp. 135
Ogden Township 82-86, 135
Olive Gold Mines Ltd. 259
Olive Gold Mining Co. of Seine River Ltd., The 259
Oliver Severn Gold Mines Ltd. 143
Oliver Severn Occurrence, Pellatt Tp. 238
Oliver Severn Occurrence, Willingdon Tp. 239
Olympia Gold Mining Co. Ltd. 149
Olympia Mines Inc. 149
Olympia Mine (Past Producer), Glass Tp. 148-149
O'Neill Occurrence, Holloway Tp. 131
Ontario Cryderman Gold Mines Ltd. 73
Ontario Gold Mines Co. 254
Ontario Mining Co. 181
Ontario Occurrence, Glass Tp. 238
Ontario Prospectors' Mining and Development Co. Ltd., The 154
Opapimiskan Lake Occurrence 246

Page

Ophir Gold Mining Co. 19
Ophir Mine (Past Producer) 181
Ophir Mines Development Co. 19
Orecana Trusts Ltd. 21, 25
Orelia Mines Ltd. 255, 256
Oremond Gold Mines Ltd. 279
Oremond Prospect 278-279
Original Swede Boys Prospecting Co. of Rainy River Ltd., The 260
Orlac Red Lake Mines Ltd. 215
Orphan Mine (Past Producer) 284
Orpit Mines Ltd. 50
Orpit Prospect 49, 50
O'Shea, P., Occurrence, Bristol Tp. 124
Ostrosser Deloro Mines Ltd. 61
Osulake Mines Ltd. 296
O'Sullivan Lake Occurrence 301
OttawaGold Milling and Mining Co. 175
Ourgold Mining Co. Ltd. 186, 298
Ourgold Occurrence, Conacher Tp. 298
Owens Acne Occurrence, Ogden Tp. 135

P.A.L. Exploration Ltd. 288
Page Occurrence, Forgie Tp. 237
Pifher Township 282-284, 299
Painkiller Lake Gold Mining Co. Ltd. 45
Palmer, R.N. 288
Pamour Mine (Producer) 119-120
Pamour Porcupine Mines Ltd. 116, 118, 119, 120
Pango Gold Mines Ltd. 34
Pantan Mines Ltd. 176
Paradis Creek Placer Occurrence, Ogden Tp. 135
Parkhill Mine (Past Producer) 32
Parkhill Gold Mines Ltd. 32
Parkhill Gold Mines (1937) Ltd. 32
Partington, J.A. 179
Parvus Mines Ltd. 188, 189
Parvus Prospect, Baird Tp. 188-189
Patino Mining Corp., The 205
Patino Mining Co. Ltd. 110
Pat Occurrence, Beatty Tp. 123
Paulore Gold Mines Ltd. 189
Paulson, P. 163
Paymaster Consolidated Mines Ltd. 104, 134
Paymaster Mine (Past Producer) 103-104
Paymaster Prospect 165
Payton Prospect 40-41
Pearl Lake Gold Mines Ltd. 101
Pelham Gold Mines Ltd. 240
Pellatt Township 238
Penn Occurrence, Ogden Tp. 135
Penrose Gold Mines Ltd. 124
Penrose Occurrence, Bristol Tp. 124
Perron Gold Mines Ltd. 129
Perron Occurrence, Mountjoy Tp. 134
Peters, W. 150
Peter Edwards Prospect 22-23
Peter-Rock Mining Co. Ltd. 23
Petrie, D.C., Occurrence 241
Pexton, C.W., Occurrence, Jessop Tp. 132
Phillips Township 155
Phillips Township 238-239
Picard Gold Mines Ltd. 219
Piccadilly Porcupine Mines Ltd. 50
Pickerel Township 156, 239
Pickle Crow Explorations Ltd. 202
Pickle Crow Gold Mines Ltd. 203
Pickle Crow Mine (Past Producer) 202-203
Pick Mines Ltd. 37
Pickwick Gold Mines Ltd. 204
Pickwick Prospect, Connell and McCullagh Tps. 203-204
Pidgeon, G.L., Occurrence, Bob Lake 241
Pidgeon, G.L., Occurrence, Melgund Tp. 238
Pillow Lava Occurrence, McCool Tp. 132
Pinchon, S. 179
Pine Portage Occurrence 242
Pioneer Island Occurrence 242
Pioneer Mining Corp. Ltd. 31
Playfair Township 135
Plenaurum Mines Ltd. 101
P.N.B. Syndicate 111
Polaris Gold Mines (Canada) Ltd. 80
Polaris Gold Mines of Canada Ltd. 80
Polaris Prospect 80
Porcupine Consolidated Mining Co. Ltd. 57
Porcupine Crown Mines Ltd. 65, 94
Porcupine Davidson Mines Ltd. 95
Porcupine Goldacre Mines Ltd. 108
Porcupine Goldfields Development and Finance Co. Ltd. 55, 56
Porcupine Goldor Mines Ltd. 137
Porcupine Gold Reef Mining Co. Ltd. 121, 122
Porcupine Gold Ridge Mines Co. 98
Porcupine Goldtop Mines Ltd. 137
Porcupine Goldtop Occurrence, Tisdale Tp. 137

Page

Porcupine Grande Gold Mines Ltd. 120
Porcupine Hudson Bay Mines Ltd. 136
Porcupine Keora Gold Mines Ltd. 118
Porcupine Lake Gold Mining Co. Ltd., The 120, 121
Porcupine Lake Mine (Past Producer) 120-121
Porcupine McNabb Gold Mines Ltd. 133
Porcupine McNabb Occurrence, Macklem Tp. 133
Porcupine North Star Gold Mines Ltd. 58
Porcupine Paymaster Ltd. 104
Porcupine Peninsular Gold Mines Ltd. 54
Porcupine Peninsular Mine (Past Producer) 53-54
Porcupine Pet Gold Mines Ltd. 66, 105
Porcupine Porphyry Hill Gold Mines Ltd. 105
Porcupine Quartet Gold Syndicate 50, 116
Porcupine Quill Mining Co. Ltd. 135
Porcupine Reef Mines Ltd. 114
Porcupine Reef Gold Mines Ltd. 121, 122
Porcupine Reserve Mines Ltd. 137
Porcupine Triumph Gold Mines Ltd. 65
Porcupine United Gold Mines Ltd. 99
Porcupine Vipond Mines Ltd. 108
Porcupine Western Gold Mines Syndicate 138
Porcupine Western Occurrence, Turnbull Tp. 138
Porcupine Whelpdale Mines Ltd. 98
Porphyry Hill Gold Mine 67
Porter-Premier Occurrence, Tp.28, R.26 43
Potter and Johnston Occurrence, Guibord Tp. 130
Potter-Doal Mines Ltd. 123
Powell Prospect 67
Powell Rouyn Gold Mines Ltd. 209
Power and Mines Corp. Ltd. 29
Power and Mines Syndicate 34
Premier Gold Mining and Exploration Co. Ltd. 47
Preston East Dome Mines Ltd. 58, 59, 105
Preston Mine (Past Producer) 104-105
Preston Mine (Midcamp) (Past Producer) 105-106
Preston Mine (New York) (Past Producer) 106-107
Preston Mine (Porcupine Pet) 66
Preston Mine (Porphyry Hill) 67
Preston Mines Ltd. 105, 106
Princess Occurrence, Jaffray Tp. 238
Purdex Minerals Ltd. 144
Purdex Prospect, Ewart Tp. 144-145
Pyke, P. 301

Quartzite Occurrence, Tp.49 44
Queen Alexandra Occurrence 240
Quinn Occurrence, Guibord Tp. 130
Quyta Occurrence, Pickerel Tp. 239

Rahill Red Lake Mining Co. Ltd. 209, 215
Railroad Mining and Development Co. Ltd. 252
Rainbow Gold Milling Syndicate 227
Rainbow Lake Gold Mines Ltd. 227
Rainy Lake Mining and Power Co. 240
Rajah Occurrence, Jaffray Tp. 238
Rajah Red Lake Gold Mines Ltd. 189
Ramore Gold Mining Co. Ltd. 131
Ramore Occurrence, Holloway Tp. 131
Ramore Occurrence, Playfair Tp. 135
Ramsay Wright Township 252
Randolph, E. 255
Raty, John 86
Ray, W.S. 254
Ray Smith Prospect 274-275
Rea Consolidated Mines Ltd. 93
Realm Mining Corp. Ltd. 275
Rea Mines Ltd. 93
Rebair Gold Mines Ltd. 261
Rebair Occurrence, Freeborn Tp. 261
Redaurum Red Lake Gold Mines Ltd. 189
Redaurum Red Lake Prospect, Baird Tp. 189
Redcon Gold Mines Ltd. 196
Redcon Prospect, Balmer Tp. 196
Red Crest Gold Mines Ltd. 230
Red Crest Mine (Past Producer) 229-230
Redeemer Mine 156
Redeemer Mining and Milling Co. 157
Redeemer Prospect, Van Horne Tp. 157
Red Lake Gold Shore Mine (Past Producer) 213-214
Red Lake Gold Shore Mines Ltd. 214
Red Lake Prospectors Syndicate 222
Red Mammoth Gold Ltd. 213
Redruth Gold Mines Ltd. 244
Redruth Occurrence, Baird and Fairlie Tps. 244
Redstone Occurrence, Cody Tp. 126
Redstone Porcupine Mines Ltd. 126
Red Summit Mines Ltd. 230
Reed-Booth Prospect 22
Reef Mine (Past Producer) 121-122
Regan, J.E. 285
Regina (Canada) Gold Mining Co. 159
Regina Mine (Past Producer), Willingdon Tp. 158
Regina Mining Co. 158
Regina Reef Gold Mines Ltd. 159

Page

Regnery Metals 21
Regnery Occurrence, Tp.29, R.24 and 25 43
Reid, S., Occurrence, Currie Tp. 127
Reid Occurrence, Tp.48 44
Reliance Occurrence 240
Remo Occurrence, Holloway Tp. 131
Reoplata Mines Ltd. 134
Reoplata Placer Occurrence, Munro Tp. 134
Rexora Mining Co. Ltd. 237
Rhodes, J.A., Occurrence, Beatty Tp. 123
Ribago Copper Corp. 154
Richardson Lake Occurrence 246
Richelieu Gold Mines Ltd. 294
Richelieu Prospect 294
Richmond Development Co. Ltd. 213
Richmore Occurrence 261
Rickaby Lake Occurrence 245
Rickaby Township 284
Rickard Ramore Gold Mines Ltd. 86
Rickard Township 86-87
Ridgedome Mines Ltd. 84
Ridgedome Mines Ltd. 135
Ridgedome Occurrence, Ogden Tp. 135
Ridgefield Explorations Ltd. 244
Ridgegold Porcupine Mines Ltd. 84
Rio Algom Occurrence, Cody Tp. 126
Rio Canadian Exploration Ltd. 196
Rio Tinto Canadian Exploration Ltd. 247
Robb Township 135-136
Roberts, H.M. 134
Roberts, H.M. Occurrence, Mountjoy Tp. 134
Robertson, A.M. 257
Robin Red Lake Mines Ltd. 197
Robin Red Lake Prospect, Balmer Tp. 196-197
Rognon, E.G. 177
Rognon Gold Mines Ltd. 177
Rognon Mine (Past Producer) 177-178
Rollex Mines Ltd. 138
Rollex Occurrence, Whitney Tp. 138
Rollex (Vet) Claims, Whitney Tp. 138
Roma Occurrence, Cody Tp. 126
Romar Mines Ltd. 275
Romfield Building Corp. Ltd. 55, 56
Ronnoco Gold Mines Ltd. 79, 126, 132
Ronnoco Occurrence, Cody Tp. 126
Ronnoco Prospect 79
Roseman Occurrence, Jaffray Tp. 238
Ross, R., Occurrence, Guibord Tp. 130
Ross Mine (Producer) 76
Ross Red Lake Syndicate 186
Rowan Consolidated Mines Ltd. 229
Rowan Discovery Syndicate 230
Royal Occurrence, Jaffray Tp. 238
Royal Porcupine Mines Ltd. 138
Royal Sovereign Prospect 167-168
Roy, J.P., Occurrence, Sheraton Tp. 136
Roy McA274 Occurrence 241
Runzer, R. 172
Rush Bay Golden Horn Mining Co. Ltd. 145
Rusk Occurrence, Bristol Tp. 124
Russet Red Lake Gold Mines Ltd. 190
Russet Red Lake Prospect, Baird Tp. 190
Russet Red Lake Syndicate 190
R.W.F. Mines Ltd. 124
Rypan Occurrence, Deloro Tp. 127
Rypan Porcupine Mines Ltd. 127

Sachigo River Exploration Co. Ltd. 236
Sachigo River Mine (Past Producer) 235-236
Saganaga Lake Occurrence 301
St. Anthony Development Co. Ltd. 295
St. Anthony Gold Mines Ltd. 295
St. Anthony Gold Mining Co. Ltd. 294
St. Anthony Mine (Past Producer) 294-295
St. Fabiens Copper Mines Ltd. 214
St. Louis Occurrence 300
"St. Paul Syndicate" 168
Sairy Gamp Occurrence 240
Sakoose Gold Mining Co. Ltd. 175
Sakoose Mine (Past Producer) 174-175
San Antonio (Camp Zone) Occurrence, Ewart Tp. 237
San Antonio (Fault Zone) Occurrence, Ewart Tp. 237
San Antonio Gold Mines Ltd. 143
Sandborn No. 1 Occurrence 246
Sandborn No. 2 Occurrence 246
Sandenise Gold Mines Ltd. 291
Sandra Township 264, 299-300
Sand River, Creek Vein Occurrence, Eva Tp. 298
Sand River Gold Mining Co. Ltd. 272
Sand River Mine (Past Producer) 272-273
Sand River Mining Co. Ltd. 298
Sandybeach Lake Occurrence, MacFie Tp. 238
Sandybeach Lake Syndicate 153
Sanshaw Mines Ltd. 215
Sanshaw Prospect, Dome Tp. 214

Page

Santa Fe Gold Mines Ltd. 253
Sapawe Gold Mines Ltd. 251, 252
Sapawe Mine (Past Producer) 251-252
Sarmac Gold Mining Corp. 284
Saundary Prospect 259-260
Saundary Syndicate 260
Sawbill Lake Gold Mining Co. Ltd. 258
Sawbill Lake Mine (Past Producer) 258
Schmidt Occurrence 243
Schreiber Gold Mines Ltd. 288
Schumacher Gold Mines Ltd. 100
Scottish Ontario Gold Mining Co. Ltd. 111
Scottish-Ontario Syndicate 112
Scotty Island Occurrence 242
Scramble Occurrence, Jaffray Tp. 238
Seagers, William S. 78
Selby Lake Mines Ltd. 161, 240
Selby Lake Occurrence 240
Selected Canadian Gold Ltd. 182
Sentinel Occurrence, Glass Tp. 238
Seventeen Mile Post Boulder Occurrence, Robb Tp. 136
Shabu Lake Occurrence 246
Shaft Island Occurrence, Lat. 48°45' - Long. 79°45' 138
Shannon, J.D. 159
Shanwell Occurrence, Cody Tp. 126
Shanwell Porcupine Gold Mines Ltd. 126
Shattuck Denn Mining Corp. 251
Shaw Porcupine Gold Mines Ltd. 87
Shaw Township 87-89, 136
Shaynee Consolidated Mines Ltd. 38
Shenango Gold Mines Ltd. 19
Shenango Prospect 19
Sheraton Township 136
Shield Development Co. Ltd. 281
Shier Occurrence, Tp.29, R.23 43
Shingwak Lake Occurrence 241
Shonia Lake Occurrence 246
Shunsby Gold Mines Ltd. 128
Shunsby Occurrence, Garrison Tp. 128
Sigma Mines (Quebec) Ltd. 245
Silver Belle Mines (1966) Ltd. 158, 239
Silverfields Mining Corp. Ltd. 202
Silver Foam Mining Co. 138
Silver Foam Occurrence, Walker Tp. 138
Sirdar Occurrence, Glass Tp. 238
Sjolander-McKirdy Occurrence 301
Sjolander Occurrence 301
Skynner Lake Gold Mines Ltd. 64
Slate Islands Mining Co. 290
Smith, R.L. 275
Smith, S.B. 33
Smith, S.B., Mine (Past Producer) 32-33
Smith, W.W., Occurrence 241
Smith Bros. 253
Smith Group Occurrence 245
Smith-Watson Occurrence 246
Sogemines Development Co. Ltd. 301
Sol D'Or Gold Mines Ltd. 227, 228
Sol D'Or Mine (Past Producer) 227-228
Soo Mining and Prospecting Syndicate 23
Soocana Mining Co. Ltd. 22, 23
South-Dome Mines Ltd. 105, 106
Southeast McCowan Occurrence, McCowan Tp. 132
South McKenzie Occurrence, Dome Tp. 244
South Porcupine Occurrence, Guibord Tp. 130
South Porcupine Syndicate 130
South Slate Island Prospect 289-290
Southworth Township 239
Sovereign Loan Syndicate 137
Spina Occurrence, Bristol Tp. 124
Spina Porcupine Mines Ltd. 124
Spirit Lake Gold Mines Ltd. 233
Spirit Lake Mines Ltd. 233
Spirit Lake Prospect 232-233
Spooner, F. 286
Spooner Gold Mines Ltd. 286
Spooner Prospect 285-286
Springer, Karl, Occurrence, Irwin Tp. 298
Springer Lake Occurrence 246
Springer Sturgeon Gold Mines Ltd. 264
SSM2138 Occurrence, Tp.49 44
Standard Gold Mines Ltd. 104
Standard Occurrence 242
Stanley Gold Mines Ltd. 33
Stanley Prospect 33
Starratt Nickel Mines Ltd. 187, 190
Starratt Olsen Gold Mines Ltd. 191
Starratt Olsen Mine (Past Producer) 190-191
Starratt Olsen Mines Ltd. 197
Staten Porcupine Gold Mines Ltd. 138
Staten Porcupine Occurrence, Turnbull Tp. 138
Steele, J. 294
Steele Township 136
Steep Rock Iron Mines Ltd. 261
Steep Rock Occurrence, Freeborn Tp. 261

Page

Stella-Lac La Belle Mines Syndicate 154
Stella Prospect, Manross Tp. 153-154
Stenabaugh Bros. 43
Stenabaugh Occurrence, Tp.30, R.22 43
Sterling Development Co. 126
Stevenson, J. 176
Stewart, W.T., Occurrence, Munro Tp. 134
Stewart-Abate Gold Mines Ltd. 49
Stewart-Abate Prospect 49, 123
Stock Township 136
Stone, W.E. 256
Strathcona Mines Ltd. 182, 300
Strathcona Occurrence, Walters Tp. 300
Straw Lake Beach Gold Mines Ltd. 160
Straw Lake Beach Mine (Past Producer) 159-160
Straw Lake Occurrence 240
Stull Lake Occurrence 247
Sturgeon Lake Development Co. 294
Sturgeon Lake Mining Co. 2, 293
Sturgeon River Gold Mines Ltd. 278
Sturgeon River Mine (Past Producer) 277-278
Success Mines Ltd. 204
Sullivan, P.J., Occurrence, Tp. 84 300
Sullivan Prospect 170
Sultana Gold Mines Ltd. 182
Sultana Mine (Past Producer) 181-182
Sultana Mines of Canada Ltd. 182
Summers Township 271, 284-286, 300
Summit Lake Gold Mining Co. Ltd. 165
Sunbeam Mine (Past Producer) 252
Sun Ray Gold Syndicate 84
Sunrise Mining Co. 43
Sunrise Occurrence, Tp.29, R.23 43
Surluga Gold Mines Ltd. 30, 34-35
Surluga Mine (Past Producer) 34-35
Sutherland, H.H. 120
Sutherland and Co. 34
Swanson Occurrence 241
Swede Boy Mine 260
Swede Boys Island Occurrence 240
Swede Boys Occurrence 240
Swedish-American Prospecting Co. 204
Swedish Canadian Mines Ltd. 254
Sykes, John, Occurrence 243
Sylvanite Gold Mines Ltd. 47, 123, 128, 136
143, 209, 237
Sylvanite Occurrence, Forgie Tp. 237
Sylvanite No. 1 Occurrence, Bowman Tp. 123
Sylvanite No. 2 Occurrence, Bowman Tp. 123
Sylvanite No. 3 Occurrence, Bowman Tp. 123

Tabor, J. 176
Tabor Lake Gold Mines Ltd. 176, 275
Tabor Prospect 175-176
Talisman Gold Mines Ltd. 71
Talisman Prospect 71
Talmora Long Lac Gold Mines Ltd. 270
Talmora Longlac Mine (Past Producer) 269
Taylor Occurrence, Hawkins Tp. 42
Taylor-Segsworth Occurrence, Pifher Tp. 299
Taylor Township 136
Teasdale, A. 41
Teck Corp. Ltd. 203, 224
Teck Exploration Co. Ltd. 286
Teck-Hughes Gold Mines Ltd. 208
Tecumseh Gold Mines Ltd. 162
Teddy Bear Prospect 77-78
Teddy Bear Valley Mines Ltd. 78
Tellaurum Gold Mines Ltd. 299
Temiskaming Testing Laboratories 60
Texmont Mines Ltd. 110
Texmont Prospect 110
Tex-Sol Explorations Ltd. 135
Tex-Sol Occurrence, Ogden Tp. 135
Thackeray Township 136
Theresa Gold Mines Ltd. 292
Theresa Mine (Past Producer) 291-292
Thomas Gold Mining Co. Ltd. 137
Thomas Occurrence, Thomas Tp. 137
Thomas Ogden Gold Mining Co. Ltd. 135
Thomas Township 136-137
Thrasher, P. 145
Thrasher P210 Occurrence, Jaffray Tp. 238
Three Friends Occurrence, Boys Tp. 237
Three Nations Gold Mining Co. Ltd. 120
Thunderhead Gold Mines Ltd. 274
Thunderhead Prospect 274
Thunder Mining Co. Ltd. 295
Timmins Corp., N.A. 292
Timmins, Noah, Inc. 25, 205, 217, 218
Tisdale Ankerite Mine (Past Producer) 107
Tisdale Ankerite Mines Ltd. 107
Tisdale Township 90, 109, 137
Toburn Gold Mines Ltd. 124
Todd Township 228-230

Page

Tombill Gold Mines Ltd. 268, 269, 270, 279
Tombill Mine (Past Producer) 279-280
Tombill Mines Ltd. 269, 270, 279, 280
Tombill Prospect 270-271
Tom Johnson Nipigon Mines Ltd. 298
Tommy Burns Gold Mines Ltd. 89
Tommy Burns Gold Mining Co. 89
Tommy Burns Prospect 88-89
Toner and McCormick Occurrence, Bristol Tp. 124
Toner Property, Bristol Tp. 124
Toronto Harker Gold Mines Ltd. 130
Toronto Harker Occurrence, Harker Tp. 130
Torrance, L. 51
Towagmac Exploration Co. 21
Township 26, Range 24 42
Township 26, Range 26 42
Tp.26, R.26 Occurrence 42
Township 27, Range 25 20-21
Township 27, Range 26 42
Township 28, Range 24 21-22
Township 28, Range 25 22-23
Township 28, Range 26 .... 24-25, 42
Township 29, Range 22 .... 25-26, 43
Township 29, Range 23 .... 27-35, 43
Township 29, Ranges 24 and 25 43
Township 30, Range 19 35
Township 30, Range 22 43
Township 43 43
Township 47 .... 36-37, 43
Township 48 .... 37-38, 43-44
Township 49 .... 38-40, 44
Township 73 286
Township 84 .... 287-288, 300
Township 137 40-41
Transaurum Mines Ltd. 133
Transaurum Occurrence, Michaud Tp. 133
Treadwell or Mayot Property, Beatty Tp. 123
Treasure Mine, Jaffray Tp. 151
Treasure Prospect, Jaffray Tp. 151
Tremblay, Frank 76
Tribe, R.A. 301
Tribe, R.A., Occurrence 301
Trident Occurrence, Bristol Tp. 124
Trident Porcupine Gold Mines Ltd. 124
Triggs Occurrence, Code Tp. 237
Trio Occurrence, Carman Tp. 125
Triumph Gold Mines Ltd. 89, 108
Triumph Occurrence 242
Triumph Prospect 107-108
Trojan Occurrence, Phillips Tp. 239
Trottier Township 253
Troup Porcupine Mines Ltd. 138
Tully-Burton Occurrence 246
Tully Township 109-110
Tumac Mining and Development Co. Ltd. 73
Turcott Occurrence, Bowman Tp. 123
Turnbull Porcupine Gold Syndicate 137
Turnbull Township 110-111, 137-138
Turney Occurrence, Taylor Tp. 136
Turtlepond Lake Occurrence 241
Tweedsmuir Township 239
Twentieth Century Mine (Past Producer) 168-169
Twentieth Century Mining Co. Ltd. 166, 168
Twindyke Mine 86, 87
Twindyke Mines Ltd. 86
Twindyke Prospect 86-87
Two-In-One Gold Mines Ltd. 138
Two-In-One Occurrence, Whitney Tp. 138

Uchi Gold Mines Ltd. 216, 217, 218, 219
Uchi Mine (Grasett) (Past Producer) 216-217
Uchi Mine (Hanalda) (Past Producer) 217
Uchi Mine (Jalda) (Past Producer) 218
Uchi Mine (Uchi) (Past Producer) 218-220
Undersill Gold Mining Co. Ltd. 272
Union Mine and Trust Co. 138
Union Occurrence, Whitesides Tp. 138
United Algoma Mines Ltd. 29
United Macfie Mines Ltd. 125
United Macfie Occurrence, Carman Tp. 125
United New Fortunes Mines Ltd. 166
United Porcupine Gold Mines Ltd. 138
United States Refining and Smelting Co. 55
U.S. Smelting and Refining Co. Ltd. 261
Upper Canada Mines Ltd. 290
Upper Seine Gold Mines Ltd. 258
Upper Seine Gold Syndicate 258
Upton, A.B. 151

Val D'Or Mineral Holdings Ltd. 191, 219
Valenti Occurrence, Tp.29, R.22 43
Van Horne Township 156-157, 239
Van Houten Gold Mines Ltd. 153, 175, 177
Van Houten Gold Syndicate 175, 177
Van Houten Prospect 176-177

Page

Vasey, J.E.-Stenabaugh Occurrence, Lizar Tp. 42
Ventures Ltd. 74, 95, 124, 182, 184, 301
Vermilion Lake Gold Mines Ltd. 158
Vermilion Lake Mine (Past Producer)
  Vermilion Tp. 157-158
Vermilion Township 157-158
Vermor Gold Mines Ltd. 158
Victory Occurrence 240
Villbona Gold Mines Ltd. 141
Villbona Prospect, Echo Tp. 141
Vimy Gold Mines Ltd. 77
Vimy Prospect 77
Violet Prospect 170-171
Vipond Consolidated Mines Ltd. 108, 109
Vipond Mine (Past Producer) 108-109
Virginia Mining Co. of Ontario Ltd. 171
Virginia Prospect 171-172
Voge Occurrence, Garrison Tp. 128
Voges, L.A. 256
Volcanic Reef Mines Ltd. 166
Volcanic Reef Prospect 166

Wabigoon Contact Bay Gold Mines Ltd. 178
Wachman Mining and Milling Co. Ltd. 178
Wachman Prospect 178
Walhart Gold Mines Ltd., Munro Tp. 134
Walker Township 138
Walls Township 42
Walsh, J.J., Prospect, Hutchinson Tp. 250
Walsten, C.S. 159
Walters-Shephard Occurrence 246
Walters Township 278, 300
Wampum Gold Mines Ltd. 172, 173
Wampum Lake Prospect 172
War Eagle Occurrence, Tp.29, R.23 43
Washeibemaga Lake Occurrence 240
Wasu Mines Ltd. 135
Wasu Porcupine Mines Ltd. 135
Watabeag Occurrence, Carr Tp. 125
Watson Occurrence 241
Wawa Gold Fields Occurrence, Tp.29, R.23 43
Wawa Gold Mining Co. of Michipicoten, The 31
Webb, J.W. 39
Webster and Angell 151
Wells Longlac Mines Ltd. 267
Wendigo Gold Mines Ltd. 154, 155
Wendigo Mine (Past Producer), Manross Tp. 154-155
Wendigo Mines of Ontario Ltd., The 154
West Dome Lake Gold Mines Ltd. 104
West Dome Mines Ltd. 104
Western Lands Occurrence, Mountjoy Tp. 134
Western Peninsula Occurrence 242
Westfield Minerals Ltd. 93, 95
Wetelainen Occurrence 241
Wettlauffer-Lorrain Co. 295
Wheeler Fraction Mining Syndicate Ltd. 166
Whitco Occurrence, Cody Tp. 126
Whitco Porcupine Mines Ltd. 126
White, G.L., Occurrence, Tp.47 43
White, Frue and Sibley 281
White, No. 1 Occurrence 246
White, No. 2 Occurrence 246
White-Guyatt Mining Co. Ltd. 82, 129
White-Guyatt Prospect 81-82
Whitehead, M. 251
White Lilly Prospect, Trottier Tp. 253
Whitesides Township 138
Whitney Contact Syndicate 125
Whitney Township 111-122, 138
Windfall Oil and Mines Ltd. 141
Windward Gold Mines Ltd. 141
Windward Prospect, Echo Tp. 141
Wiegand, T. 254
Wiegand Gold Mining Co. 254
Wilcarr Mines Ltd. 125, 138
Wilcarr Occurrence, Carr Tp. 125
Wilcarr Occurrence, Wilkie Tp. 138
Wiley Bros. 248
Wilkie Mines Ltd. 138
Wilkie Township 138
Williams, J.P. 258
Williams Co. 253
Willans Township 245
Willingdon Township 158-159, 239
Wilmar Mine (Producer) 215-216
Wilmar Mines Ltd. 215, 216
Wilport Gold Mines Ltd. 300
Wilport Occurrence, Summers Tp. 300
Wilson Red Lake Gold Mines Ltd. 198
Wilwood Occurrence, Cody Tp. 126
Winabie Gold Mines Ltd. 36
Winchester Explorations Ltd. 42
Win-Eldrich Mines Ltd. 166
Wineva Gold Mines Ltd. 126
Wineva Occurrence, Cody Tp. 126

Page

Winisk Occurrence 246
Winnipeg Consolidated Occurrence, Kirkup Tp. 238
Witch Bay Occurrence, Code Tp. 237
Woco Gold Development Ltd. 218
Wolfsteve Mining and Development Co. Ltd. 89
Wood-Porcupine Syndicate 126
Woods-Tyson Claims 265
Wright, J.D. 152
Wright, M.P., Occurrence, Phillips Tp. 239
Wright, T., Occurrence, Bristol Tp. 124
Wright-Hargreaves Mines Ltd. 82, 128, 133
Wright-Hargreaves Occurrence, Garrison Tp. 128
Wright-Hargreaves Occurrence, Michaud Tp. 133
Wynne Syndicate Occurrence, Stull Lake 247

Page

Young, D. 251
Young, H.G., Mine (Past Producer) 197-198
Young, H.G., Mines Ltd. 197-198
Young, J., Rickaby Lake Occurrence 245
Young, J.W. 126
Young-Munro Gold Mines Ltd. 134
Yum-Yum Occurrence, Glass Tp. 238

Zealand Township 239
Zevely, P.B., Occurrence, Munro Tp. 134
Zmudzinski Occurrence 301
Zulapa Mining Corp. Ltd. 225, 226
Zulapa Prospect, I.R.64 225-226